BEST AVAILABLE COPY

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Sabiha Qazi Examiner #: 74141 Date: 11/1/04
Art Unit: 1616 Phone Number 30 20622 Serial Number: 10/657,753
Mail Box and Bldg/Room Location: ..... Results Format Preferred (circle): PAPER DISK E-MAIL
1670, Rm. 4A45
If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

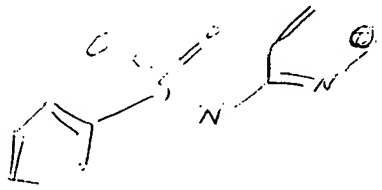
Title of Invention: Inhibitors of fungal Invasion

Inventors (please provide full names): Talley et al

Earliest Priority Filing Date: 9/6/02

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search for the compds of formula I



and substituents as in claim 1

Election Group I claims 1–25

Please see attached sheets.

Thank you

****

STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher: Ja	NA Sequence (#)	STN ✓
Searcher Phone #: 22504	AA Sequence (#)	Dialog
Searcher Location:	Structure (#) ✓	Questel/Orbit
Date Searcher Picked Up: 1/13/05	Bibliographic	Dr.Link
Date Completed: 1/13/05	Litigation	Lexis/Nexis
Searcher Prep & Review Time:	Fulltext	Sequence Systems
Clerical Prep Time: 30	Patent Family	WWW/Internet
Online Time: +90	Other	Other (specify)

PTO-1590 (8-01)

```
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FILE 'REGISTRY' ENTERED AT 09:49:42 ON 13 JAN 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   11 JAN 2005  HIGHEST RN 811782-89-5
DICTIONARY FILE UPDATES:  11 JAN 2005  HIGHEST RN 811782-89-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> d sta que l31
L4              STR
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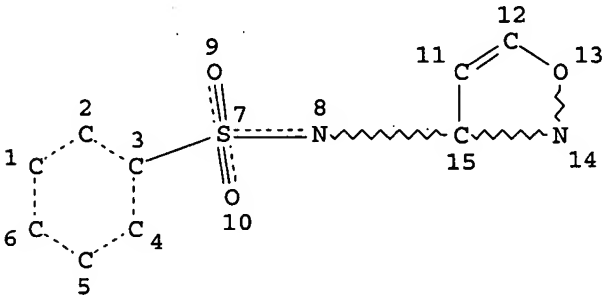


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NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC  11
NUMBER OF NODES IS  15

STEREO ATTRIBUTES: NONE
L6          1919 SEA FILE=REGISTRY SSS FUL L4
L7               STR
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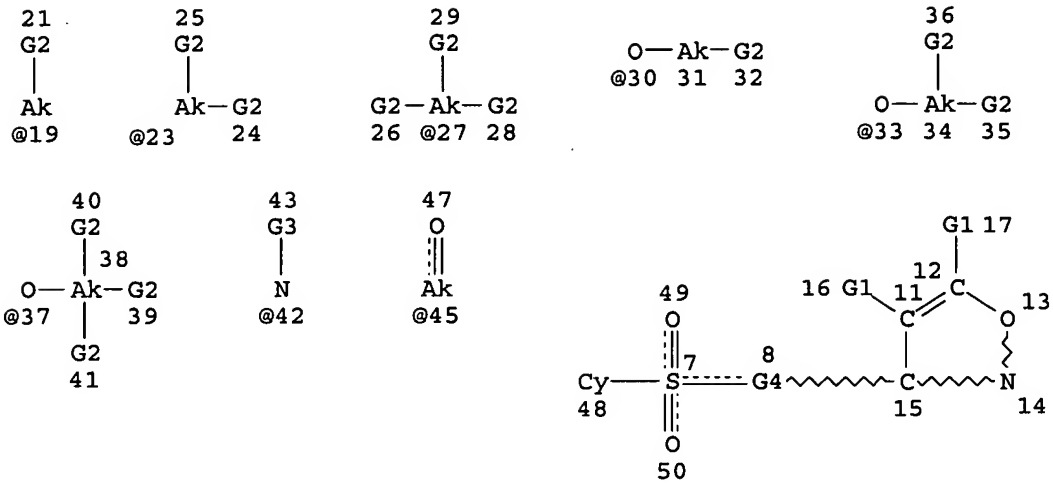
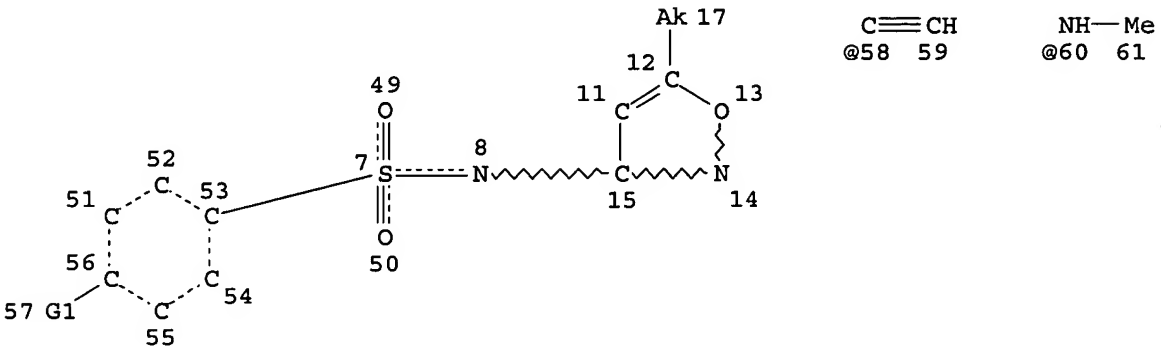


VAR G1=H/AK/19/23/27/30/33/37
VAR G2=X/OH
VAR G3=CHO/45/AK/19/23/27
VAR G4=N/42
NODE ATTRIBUTES:
CONNECT IS M1 RC AT 48
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 15
NUMBER OF NODES IS 37

STEREO ATTRIBUTES: NONE
L9 1705 SEA FILE=REGISTRY SUB=L6 CSS FUL L7
L10 STR

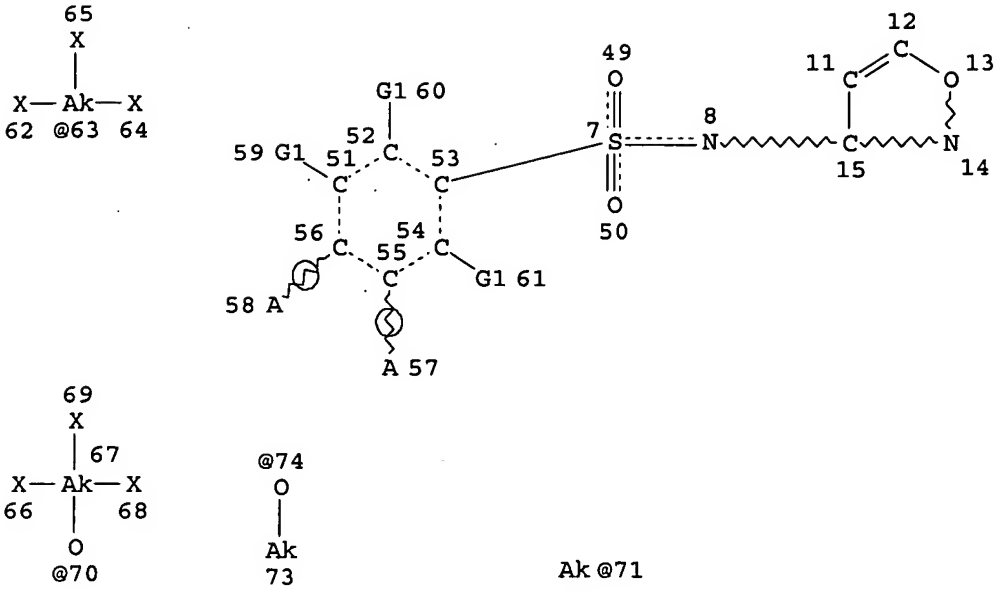


VAR G1=T-BU/58/60/CF3/ET
NODE ATTRIBUTES:
CONNECT IS E1 RC AT 17
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 15 53
NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE
L12 8 SEA FILE=REGISTRY SUB=L9 SSS FUL L10
L13 1697 SEA FILE=REGISTRY ABB=ON PLU=ON L9 NOT L12

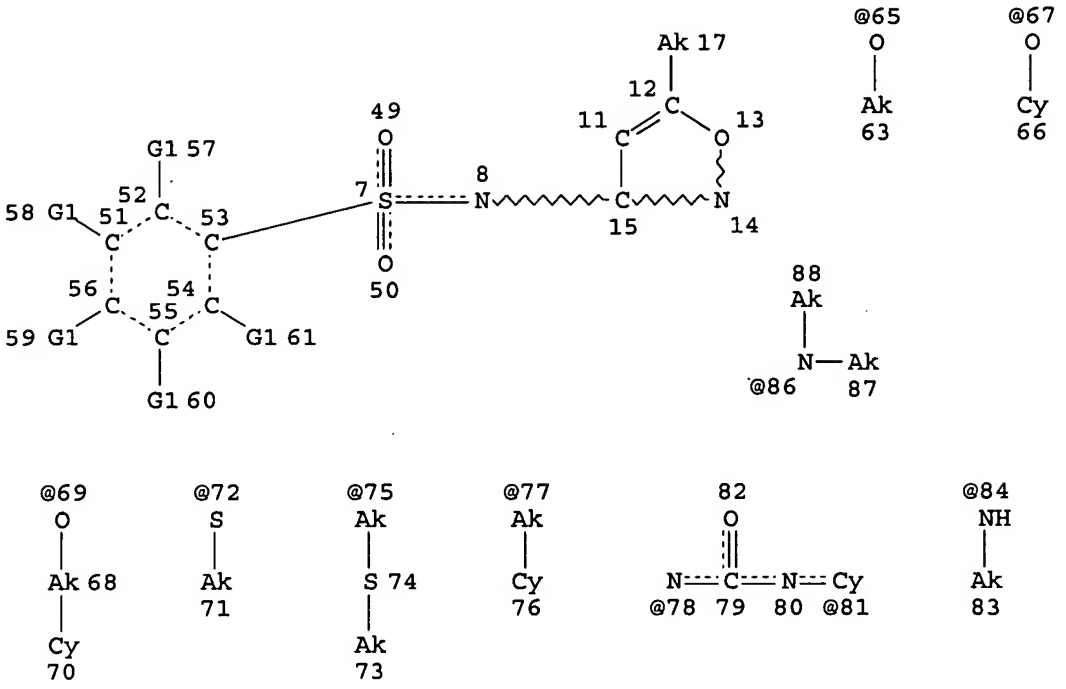
L14 STR



VAR G1=H/OH/X/71/63/74/70
NODE ATTRIBUTES:
CONNECT IS E4 RC AT 63
CONNECT IS E4 RC AT 67
CONNECT IS E1 RC AT 71
CONNECT IS E4 RC AT 73
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 53 15
NUMBER OF NODES IS 32

STEREO ATTRIBUTES: NONE
L16 5 SEA FILE=REGISTRY SUB=L13 SSS FUL L14
L17 3 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND (OC4-C6 OR OC2OC2-C6 OR C6-C6)/ES
L18 1692 SEA FILE=REGISTRY ABB=ON PLU=ON L13 NOT L16
L19 STR

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CONNECT IS E1  RC AT  17
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC  53  15
NUMBER OF NODES IS  45

STEREO ATTRIBUTES: NONE
L22          164 SEA FILE=REGISTRY SUB=L18 CSS FUL L19
L23           86 SEA FILE=REGISTRY ABB=ON  PLU=ON  L22 AND NC>=2
L24           71 SEA FILE=REGISTRY ABB=ON  PLU=ON  L23 AND ((PMS OR MXS OR
                 MNS)/CI OR COMPD OR WITH OR UNSPECIFIED)
L25           15 SEA FILE=REGISTRY ABB=ON  PLU=ON  L23 NOT L24
L26           78 SEA FILE=REGISTRY ABB=ON  PLU=ON  L22 NOT L23
L27            6 SEA FILE=REGISTRY ABB=ON  PLU=ON  L26 AND (D/ELS OR ION OR
                 IDS/CI)
L28            1 SEA FILE=REGISTRY ABB=ON  PLU=ON  L27 AND BR/ELS
L29            5 SEA FILE=REGISTRY ABB=ON  PLU=ON  L27 NOT L28
L30           73 SEA FILE=REGISTRY ABB=ON  PLU=ON  L26 NOT L29
L31           91 SEA FILE=REGISTRY ABB=ON  PLU=ON  (L17 OR L25 OR L30)


=> d his

     (FILE 'HOME' ENTERED AT 08:06:25 ON 13 JAN 2005)
               SET COST OFF

     FILE 'HCAPLUS' ENTERED AT 08:06:34 ON 13 JAN 2005
L1             1 S US20040106663/PN OR (US2003-657753# OR WO2003-US27911 OR US20
               SEL RN

     FILE 'REGISTRY' ENTERED AT 08:08:32 ON 13 JAN 2005
L2            88 S E1-E88
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L3            81 S L2 AND NOC3/ES AND NR>=2
L4               STR
L5            50 S L4
L6          1919 S L4 FUL
                 SAV L6 QAZI657/A
L7               STR L4
L8            50 S L7 CSS SAM SUB=L6
L9          1705 S L7 CSS FUL SUB=L6
                 SAV L9 QAZI657A/A
L10              STR L7
L11            0 S L10 SAM SUB=L9
L12            8 S L10 FUL SUB=L9
                 SAV L12 QAZI657B/A
L13         1697 S L9 NOT L12
L14              STR L10
L15            0 S L14 SAM SUB=L13
L16            5 S L14 FUL SUB=L13
                 SAV QAZI657C/A L16
L17            3 S L16 AND (OC4-C6 OR OC2OC2-C6 OR C6-C6)/ES
L18         1692 S L13 NOT L16
L19              STR L10
L20           45 S L19 SAM SUB=L18
L21           12 S L19 CSS SAM SUB=L18
L22          164 S L19 CSS FUL SUB=L18
                 SAV L22 QAZI657D/A
L23           86 S L22 AND NC>=2
L24           71 S L23 AND ((PMS OR MXS OR MNS)/CI OR COMPD OR WITH OR UNSPECIFI
L25           15 S L23 NOT L24
L26           78 S L22 NOT L23
L27            6 S L26 AND (D/ELS OR ION OR IDS/CI)
L28            1 S L27 AND BR/ELS
L29            5 S L27 NOT L28
L30           73 S L26 NOT L29
L31           91 S L17,L25,L30
                 SAV L31 QAZI657D1/A
L32         1528 S L18 NOT L22,L31

     FILE 'HCAOLD' ENTERED AT 09:09:11 ON 13 JAN 2005
L33           69 S L31
L34           11 S L33 AND P/DT
                 SEL AN
                 EDIT E89-E99 /AN /OREF

     FILE 'HCAPLUS' ENTERED AT 09:10:01 ON 13 JAN 2005
L35           19 S E89-E99
                 SEL DN AN 2 4 5 6 7 10 12 14 16
L36           10 S L35 NOT E100-E126
                 SEL DN AN L35 5
L37            1 S E127-E129
L38           11 S L36,L37
L39         3187 S L31
L40            9 S L38 AND L39
L41           11 S L38,L40
L42            1 S L1 AND L39
L43          545 S L32
L44            1 S L1 AND L43
L45            1 S L42,L44

     FILE 'REGISTRY' ENTERED AT 09:17:14 ON 13 JAN 2005
L46            4 S 671249-56-2 OR 95915-12-1 OR 384860-07-5 OR 671248-93-4

     FILE 'HCAPLUS' ENTERED AT 09:17:37 ON 13 JAN 2005
                 E TALLEY J/AU
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```
L47         143 S E3,E7,E21,E24,E25
                E FRETZEN A/AU
L48           5 S E4
                E ZIMMERMAN C/AU
L49          76 S E3-E14
                E ZIMMERMAN CRAIG/AU
L50          14 S E3-E5
                E ZIMMERMANN C/AU
L51         161 S E3-E13
                E ZIMMERMANN CRAIG/AU
L52           1 S E4
                E BARDEN T/AU
L53          25 S E3-E8
                E YANG J/AU
L54        1157 S E3,E15-E16
                E YANG JING/AU
L55         496 S E3,E27-E30
                E YANG JINGJING/AU
L56          20 S E2,E3
                E MARTINEZ E/AU
L57         585 S E3-E29,E35-E42
                E BUSBY R/AU
L58          34 S E3-E9,E15-E19
                E CORDERO E/AU
L59          17 S E3-E6,E20-E22
                E CIPRIANO F/AU
L60           5 S E3
                E HOUMAN/AU
L61          12 S E4,E5
                E FARIBA/AU
                E PIERCE C/AU
L62          16 S E3,E14
                E PIERCE CHRIS/AU
L63           2 S E5
                E SUMMERS E/AU
L64          16 S E3,E14,E15
                E MICROBIA/PA,CS
L65          29 S E3-E18
L66           4 S L39,L43 AND L47-L65
                E ETCHELL/AU
L67           1 S E4
                E CHRISTINE/AU
L68           3 S E3,E22,E23
L69           2 S E29,E30
L70           1 S L39,L43 AND L67-L69
L71           4 S L1,L45,L66,L70
L72         628 S L39,L43 (L) (PAC OR THU OR DMA OR PKT)/RL
L73           9 S L39,L43 (L) AGR/RL
L74        1897 S L39,L43 AND (PHARMACEUT? OR PHARMACOL? OR AGR?)/SC,SX
                E FUNGICIDE/CT
                E E5+ALL
L75       77972 S E8+OLD,NT
L76        1637 S E35+OLD,NT
L77        2772 S E36+OLD,NT
L78       23430 S E37+OLD,NT
L79         460 S E39+OLD,NT
                E FUNGI/CT
L80         858 S E3 (L) INFECT?
                E INFECTION/CT
                E E3+ALL
L81         199 S E2,E3 (L) FUNG?
L82        1044 S E2+OLD,NT (L) FUNG?
                E CANDIDA/CT
```

```
L83         9739 S E12-E17
L84        16151 S (CANDIDA OR C)()ALBICANS
L85       207183 S ?FUNG?
L86        75499 S ?MYCO?
L87          152 S L72-L74 AND L75-L86

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L88            1 S 723-46-6
L89         1618 S L31,L32 NOT L88

     FILE 'HCAPLUS' ENTERED AT 09:37:42 ON 13 JAN 2005
L90          600 S L89
L91           31 S L90 AND L87
L92           22 S L91 AND ?FUNG?
L93            9 S L91 NOT L92
L94          104 S L89 (L) THU/RL
L95            7 S L94 AND L75-L85
L96           18 S L89 (L) (PAC OR PKT OR DMA)/RL NOT L94
L97            8 S L96 AND (MYCOSIS? OR INFECT? OR FUNG? OR TUBER?)/CT
L98          267 S L90 AND (PHARMACO? OR PHARMACEUT?)/SC,SX NOT L94,L96
L99           17 S L98 AND L75-L85
L100           6 S L99 NOT L71,L92,L95,L97
L101          31 S L71,L92,L95,L97
L102          25 S L101 AND (PD<=20020906 OR PRD<=20020906 OR AD<=20020906)
L103           6 S L101 NOT L102
L104           1 S L103 AND FUNGAL/TI
L105          26 S L102,L104
L106          25 S L105 NOT L1
L107           1 S L105 NOT L106

     FILE 'REGISTRY' ENTERED AT 09:49:42 ON 13 JAN 2005

=> fil hcaold
FILE 'HCAOLD' ENTERED AT 09:49:57 ON 13 JAN 2005
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PRE-1967 CHEMICAL ABSTRACTS FILE WITH HOUR-BASED PRICING
FILE COVERS 1907-1966
FILE LAST UPDATED:  01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate
substance identification.  Title keywords, authors, patent
assignees, and patent information, e.g., patent numbers, are
now searchable from 1907-1966.  TIFF images of CA abstracts
printed between 1907-1966 are available in the PAGE
display formats.

This file supports REG1stRY for direct browsing and searching of
all substance data from the REGISTRY file.  Enter HELP FIRST for
more information.

=> d l34 all hitstr tot

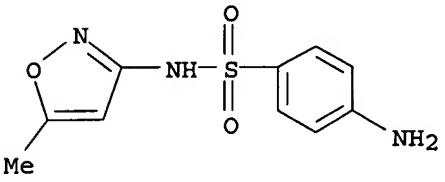
L34  ANSWER 1 OF 11  HCAOLD  COPYRIGHT 2005 ACS on STN
AN   CA65:11253b  CAOLD
TI   feed for fowl
PA   Hoffmann-La Roche, F., & Co. A.-G.
DT   Patent
     PATENT NO.     KIND          DATE
     ------------   -----------   ----
PI   NL 6514472                          <--
```

CAOLD

PATENTS only

any context

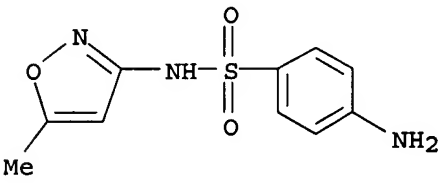
IT 122-11-2 **723-46-6** 6981-01-7 6981-18-6 6981-21-1
IT **723-46-6**
RN 723-46-6 HCAOLD
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



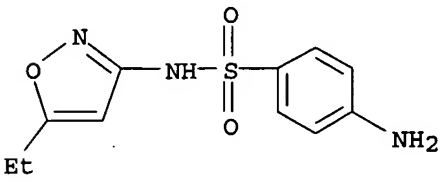
L34 ANSWER 2 OF 11 HCAOLD COPYRIGHT 2005 ACS on STN
AN CA65:8917h CAOLD
TI 2-sulfanilamido-5-alkylisoxazoles
PA Shionogi & Co., Ltd.
DT **Patent**

PATENT NO.	KIND	DATE
GB 1032270		<--

IT **723-46-6** 839-45-2 1024-37-9 **7041-71-6**
IT **723-46-6** **7041-71-6**
RN 723-46-6 HCAOLD
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



RN 7041-71-6 HCAOLD
CN Sulfanilamide, N1-(5-ethyl-3-isoxazolyl)- (7CI, 8CI) (CA INDEX NAME)

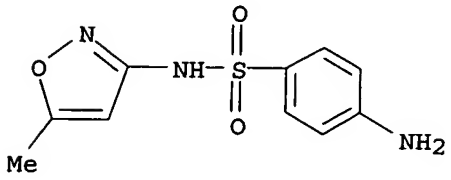


L34 ANSWER 3 OF 11 HCAOLD COPYRIGHT 2005 ACS on STN
AN CA64:19331h CAOLD
TI water-dispersible prepns. for animals
PA Hoffmann-La Roche, F., & Co. A.-G.
DT **Patent**

PATENT NO.	KIND	DATE
NL 6505953		<--
BE 664197		<--

IT 68-36-0 122-11-2 **723-46-6** 10055-49-9
IT **723-46-6**

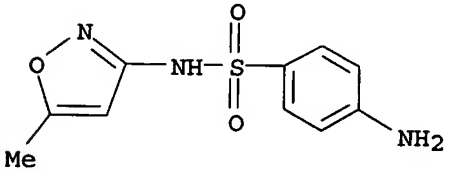
RN 723-46-6 HCAOLD
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



L34 ANSWER 4 OF 11 HCAOLD COPYRIGHT 2005 ACS on STN
AN CA64:15891c CAOLD
TI N-acylthiazonimine derivs.
PA Takeda Chemical Industries, Ltd.
DT **Patent**
TI isoxazole series, vinyl compds. of
PA Shionogi & Co., Ltd.
DT **Patent**
TI vinyl compds. of isoxazole series
AU Kano, Hideo; Adachi, I.
DT **Patent**

PATENT NO.	KIND	DATE	
PI JP 65023172		1965	<--
PI JP 66001862		1966	<--

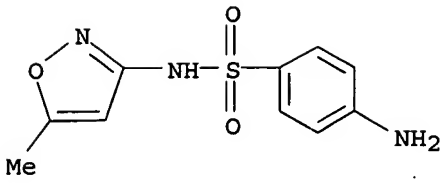
IT **723-46-6** 5376-55-6 5592-17-6
IT **723-46-6**
RN 723-46-6 HCAOLD
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



L34 ANSWER 5 OF 11 HCAOLD COPYRIGHT 2005 ACS on STN
AN CA64:15891a CAOLD
TI 3-amino-5-methylisoxazole
AU Bretschneider, Hermann; Fitz, E.; Kloetzer, W.
PA Hoffmann-La Roche Inc.
DT **Patent**

PATENT NO.	KIND	DATE	
PI US 3242189		1966	<--

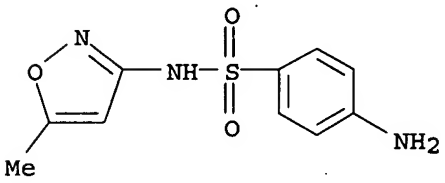
IT **723-46-6** 1072-67-9 1750-43-2
IT **723-46-6**
RN 723-46-6 HCAOLD
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



L34 ANSWER 6 OF 11 HCAOLD COPYRIGHT 2005 ACS on STN
AN CA63:1791b CAOLD
TI 3-aminoisoxazoles (4,5-substituted)
PA Hoffmann-La Roche, F., & Co. A.-G.
DT **Patent**

PATENT NO.	KIND	DATE	
NL 6408283			<--
BE 651386			<--
FR 1411132			<--
GB 1011846			<--
GB 1011849			<--

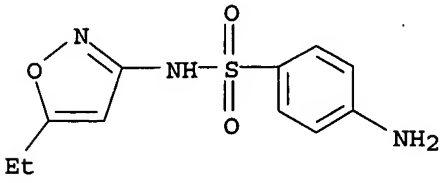
IT **723-46-6** 1750-42-1 1750-43-2
IT **723-46-6**
RN 723-46-6 HCAOLD
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



L34 ANSWER 7 OF 11 HCAOLD COPYRIGHT 2005 ACS on STN
AN CA58:10206a CAOLD
TI 2-carboxymethylene-3-methyl-4-thiazolidinone
AU Satzinger, Gerhard
PA Warner-Lambert Pharmaceutical Co.
DT **Patent**

PATENT NO.	KIND	DATE	
US 3064003		1962	<--
FR M2727			<--
GB 1022044			<--

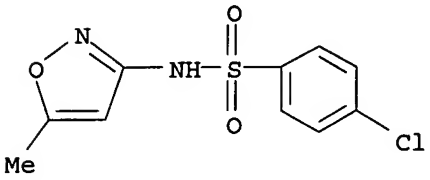
IT **7041-71-6** 26386-18-5 91960-07-5 93987-21-4
IT **7041-71-6**
RN 7041-71-6 HCAOLD
CN Sulfanilamide, N1-(5-ethyl-3-isoxazolyl)- (7CI, 8CI) (CA INDEX NAME)



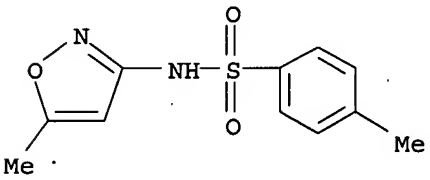
L34 ANSWER 8 OF 11 HCAOLD COPYRIGHT 2005 ACS on STN
AN CA57:13758b CAOLD
TI isoxazol derivs.
AU Makisumi, Yasuo; Kano, H.
DT **Patent**
TI isoxazole derivs.
PA Shionogi & Co., Ltd.
DT **Patent**

PATENT NO.	KIND	DATE
JP 61019566		1961 <--

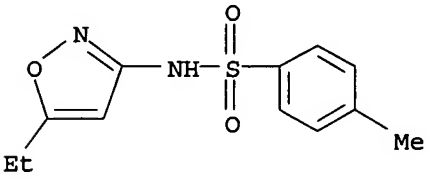
IT **90797-59-4** **91088-14-1** 91567-74-7 **91567-75-8**
93014-25-6 95915-12-1
IT **90797-59-4** **91088-14-1** **91567-75-8**
RN 90797-59-4 HCAOLD
CN Benzenesulfonamide, p-chloro-N-(5-methyl-3-isoxazolyl)- (7CI) (CA INDEX NAME)



RN 91088-14-1 HCAOLD
CN Benzenesulfonamide, 4-methyl-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



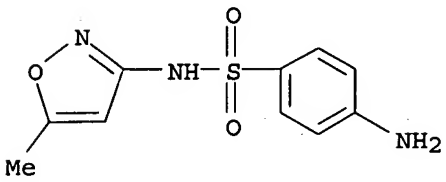
RN 91567-75-8 HCAOLD
CN p-Toluenesulfonamide, N-(5-ethyl-3-isoxazolyl)- (7CI) (CA INDEX NAME)



L34 ANSWER 9 OF 11 HCAOLD COPYRIGHT 2005 ACS on STN
AN CA54:14271d CAOLD
TI 3-sulfanilamido-5-methylisoxazole
AU Kano, Hideo; Ogata, K.; Nishimura, H.; Nakajima, K.
PA Shionogi & Co., Ltd.
DT **Patent**

PATENT NO.	KIND	DATE
JP 59005566		1959 <--

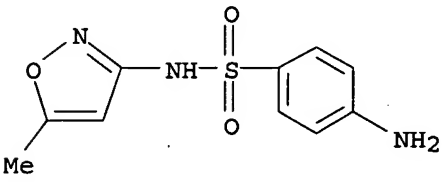
IT 80-74-0 **723-46-6** 1072-67-9 21312-10-7 93865-68-0
IT **723-46-6**
RN 723-46-6 HCAOLD
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



L34 ANSWER 10 OF 11 HCAOLD COPYRIGHT 2005 ACS on STN
AN CA53:22018i CAOLD
TI sulfonamides
AU Kano, Hideo; Nishimura, H.; Nakajima, K.; Ogata, K.
PA Shionogi & Co., Ltd.
DT **Patent**

PATENT NO.	KIND	DATE	
US 2888455		1959	<--
DE 1059459			

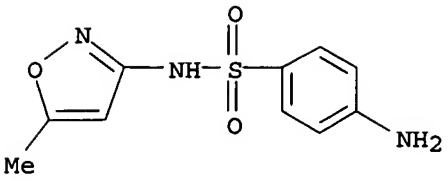
IT **723-46-6** 1072-67-9 21312-10-7 93865-68-0
IT **723-46-6**
RN 723-46-6 HCAOLD
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



L34 ANSWER 11 OF 11 HCAOLD COPYRIGHT 2005 ACS on STN
AN CA53:20091b CAOLD
TI 3-sulfanilamido-5-methylisoxazole
PA Shionogi & Co., Ltd.
DT **Patent**

PATENT NO.	KIND	DATE	
GB 814276			<--

IT **723-46-6** 1072-67-9 21312-10-7
IT **723-46-6**
RN 723-46-6 HCAOLD
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



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FILE 'HCAPLUS' ENTERED AT 09:50:06 ON 13 JAN 2005
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FILE COVERS 1907 - 13 Jan 2005 VOL 142 ISS 3
FILE LAST UPDATED: 12 Jan 2005 (20050112/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> d l41 all hitstr tot

L41 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1966:460238 HCAPLUS
DN 65:60238
OREF 65:**11253b-d**
ED Entered STN: 22 Apr 2001
TI Feed for fowl
PA F. Hoffmann-La Roche & Co. A.-G.
SO 10 pp.
DT Patent
LA Unavailable
IC A61K
CC 70 (Foods)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	NL 6514472		19660513	NL	
PRAI	US		19641112		
	US		19650602		

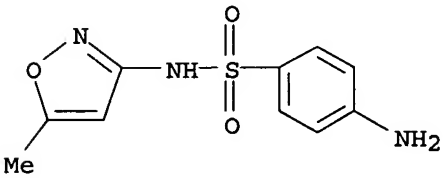
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
NL 6514472	IC	A61K

GI For diagram(s), see printed CA Issue.
AB Feed or feed additives for fowl, with qualities to prevent or treat coccidiosis, were prepared from mixts. containing (a) sulfadimethoxine, sulfoquinoxaline, sulfamethoxazole, and (b) pyrimidine derivs. with the general structure I, where R = MeO, Me, or Et groups, or a physiol.

is prepared by adding the active agent, e.g. sulfonamides etc., and some flavors to a molten mixture of polyethylene glycol-2000-10,000 and an amphiphilic fat, e.g. mono- or diglycerides of higher fatty acids. Then, by spray-solidifying or by milling, the preparation is converted into particles with a diameter of 50-2000 μ.

IT Tablets and (or) Pills
(enteric)
IT Pharmaceuticals
(enteric compns. containing)
IT Fats
Paraffins
Resins
Silicones
(enteric prepns. containing)
IT Sulfonamides
(water-dispersible preparation containing)
IT Pharmaceuticals
(water-dispersible prepns. of)
IT Glycerides
(water-dispersible tablets containing, for veterinary use)
IT Tablets and (or) Pills
(water-dispersible, for veterinary use)
IT 50-78-2, Acetylsalicylic acid
(enteric tablets containing)
IT 31566-31-1, Stearin, mono-
(water-dispersible preparation containing, for veter-inary use)
IT 11140-06-0, Palmitin
(water-dispersible preparation containing, for veterinary use)
IT **723-46-6**, Sulfanilamide, N1-(5-methyl-3-isoxazolyl)-
(water-dispersible tablet containing, for veterinary use)
IT 58-25-3, 3H-1,4-Benzodiazepine, 7-chloro-2-(methylamino)-5-phenyl-, 4-oxide 68-36-0, p-Xylene, α,α,α,α',α',.alpha.'-hexachloro- 122-11-2, Sulfanilamide, N1-(2,6-dimethoxy-4-pyrimidinyl) 4546-35-4, Thioxanthene-Δ9,γ-propylamine, 2-chloro-N,N-dimethyl-, trans- 25322-68-3, Glycols, polyethylene
(water-dispersible tablets containing, for veterinary use)
IT **723-46-6**, Sulfanilamide, N1-(5-methyl-3-isoxazolyl)-
(water-dispersible tablet containing, for veterinary use)
RN 723-46-6 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



L41 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1966:84595 HCAPLUS
DN 64:84595
OREF 64:**15891c**
ED Entered STN: 22 Apr 2001
TI Vinyl compounds of isoxazole series
IN Kano, Hideo; Adachi, Ikuo
PA Shionogi & Co., Ltd.
SO 2 pp.
DT Patent
LA Unavailable

CC 38 (Heterocyclic Compounds (More Than One Hetero Atom))
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 40023172		19651013	JP	19630731

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 40023172		

AB A mixture of 2.1 g. 3-phenyl-5-(2-chloroethyl)isoxazole, 3.3 g. Et2NH, and 15 ml. xylene is heated in a sealed tube at 120-30° for 6 hrs., washed with 5% HCl, and distilled in vacuo to give 1.4 g. 3-phenyl-5-vinylisoxazole, b2 95-7°, m. 37-8° (petroleum ether). Similarly prepared is 3-vinyl-5-phenylisoxazole, m. 56-7° (petroleum ether). The products are monomers for the manufacture of synthetic resins.
IT Isoxazole, vinyl-
(derivs.)
IT 5376-55-6, Isoxazole, 5-phenyl-3-vinyl- 5592-17-6, Isoxazole, 3-phenyl-5-vinyl-
(preparation of)

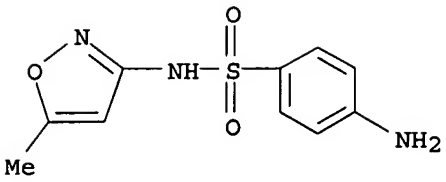
L41 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1966:84594 HCAPLUS
DN 64:84594
OREF 64:**15891a-c**
ED Entered STN: 22 Apr 2001
TI 3-Amino-5-methylisoxazole
IN Bretschneider, Hermann; Fitz, Egon; Kloetzer, Wilhelm
PA Hoffmann-LaRoche, Inc.
SO 4 pp.
DT Patent
LA Unavailable
NCL 260307000
CC 38 (Heterocyclic Compounds (More Than One Hetero Atom))
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 3242189		19660322	US	
PRAI AT		19630806		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 3242189	NCL	260307000

AB The title compound (I) is prepared by reaction of H2NCONHOH (II), H2NOH.HCl, BzNHOH, or AcNHOH.0.5H2O with MeCHBrCHBrCN (III), MeCHClCHClCN, or MeCH:CBrCN in NaOH solution E.g., 5 g. MeCH:CHCN in 6 ml. MeOH and 12 g. Br at 0° gave III, which was added to 9 g. NaOH and 5.7 g. II in 50 ml. H2O at 8°. The mixture was shaken 45 hrs. at 20°, refluxed 3 hrs., and evaporated to dryness with the addition of C6H6. I was extracted from the residue with C6H6. Treatment of the C6H6 solution of I with p-AcNHC6H4SO2Cl and C5H5N, followed by hydrolysis, gave 10.8 g. 3-sulfanilamido-5-methylisoxazole. Similarly, II and BrCH2CHBrCN gave 3-aminoisoxazole, and II and BrCH2CMeBrCN gave 3-amino-4-methylisoxazole, m. 45-50° (C6H6).
IT **723-46-6**, Sulfanilamide, N1-(5-methyl-3-isoxazolyl)- 1072-67-9, Isoxazole, 3-amino-5-methyl- 1750-43-2, Isoxazole, 3-amino-4-methyl-
(preparation of)
IT **723-46-6**, Sulfanilamide, N1-(5-methyl-3-isoxazolyl)-
(preparation of)
RN 723-46-6 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



L41 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1965:410139 HCAPLUS
DN 63:10139
OREF 63:**1791b-d**
ED Entered STN: 22 Apr 2001
TI 4,5-Substituted 3-aminoisoxazoles
PA F. Hoffmann-La Roche & Co., A.-G.
SO 10 pp.
DT Patent
LA Unavailable
IC C07D
CC 38 (Heterocyclic Compounds (More Than One Hetero Atom))
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	NL 6408283		19650208	NL	
PRAI	CH		19630806		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
NL 6408283	IC	C07D

AB The title compds., useful as intermediates in the preparation of chemotherapeutics, are prepared by cyclizing in alkaline medium the reaction product of an α,β-dihalocarbonitrile and an N-acylhydroxylamine. Thus, adding with stirring and cooling with ice 12 g. Br to a mixture of 5 g. freshly distilled MeCH2:CH2CO2H and 6 ml. MeOH, keeping the mixture 12 hrs. at 0° and 24 hrs. at 20° in the dark, adding the solution within 5 min. to a solution of 9 g. NaOH and 5.7 g. N-carbamoylhydroxylamine in 50 ml. H2O while keeping the temperature at 8°, shaking the mixture 45 hrs. at 20° and refluxing it for 3 hrs., distilling the solvent in vacuo, extracting the residue twice with 50 ml. warm C6H6, concentrating the extract to 40 ml., and adding p-AcNHC6H4SO2Cl and C5H5N followed by saponification, gave 10.8 g. 3-sulfanilamido-5-methyl-isoxazole. Similarly were prepared 3-aminoisoxazole, b10 101°, n20D 1.5090, and 3-amino-4-methylisoxazole, m. 45-50° (C6H6 and Et2O).
IT Sulfides
(di-)
IT 120-78-5, Benzothiazole, 2,2'-dithiobis- 1750-42-1, Isoxazole, 3-amino-
(derivs.)
IT **723-46-6**, Sulfanilamide, N1-(5-methyl-3-isoxazolyl)- 1750-42-1, Isoxazole, 3-amino- 1750-43-2, Isoxazole, 3-amino-4-methyl-
(preparation of)
IT **723-46-6**, Sulfanilamide, N1-(5-methyl-3-isoxazolyl)-
(preparation of)
RN 723-46-6 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)

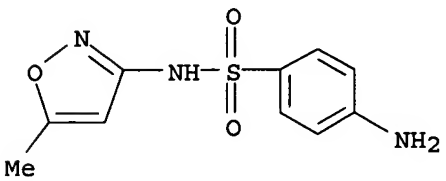
AN 1960:74694 HCAPLUS
DN 54:74694
OREF 54:**14271c-e**
ED Entered STN: 22 Apr 2001
TI 3-Sulfanilamido-5-methylisoxazole
IN Kano, Hideo; Ogata, Kazuko; Nishimura, Haruo; Nakajima, Kiyoshi
PA Shionogi & Co., Ltd.
DT Patent
LA Unavailable
CC 10G (Organic Chemistry: Heterocyclic Compounds)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 34005566		19590629	JP	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 34005566		

AB Et 5-methylisoxazole-3-carbamate (1.7 g.) was heated with 5 cc. 10% NaOH solution 8 hrs., extracted with Et2O or C6H6, the extract evaporated, and recrystd. from C6H6 to give 2-amino-5-methylisoxazole (I), m. 61-2°. To 0.9 g. I in 5 cc. pyridine was added 2.0 g. p-acetamidobenzenesulfonyl chloride, the mixture kept 1 hr., H2O added, and the precipitate recrystd. from EtOH to give 2.5 g. 3-(p-acetamidobenzenesulfonamido)-5-methylisoxazole (II), m. 220-1°. II (2 g.) was boiled with 10 cc. 10% NaOH solution 1 hr., cooled, acidified with AcOH, and the precipitate recrystd. from EtOH to give 1.5 g. title product, m. 167°; di-Ac derivative m. 209-10°. The product inhibited the growth of Shigella dysenteriae, Salmonella paratyphi, Escherichia coli, Pseudomonas aeruginosa, Klebsiella pneumoniae, Salmonella typhosa, Bacillus subtilis, and Mycobacterium tuberculosis.
IT Tuberculosis
(antitubercular substances, N1-5-methyl-3-isoxazolylsulfanilamide as)
IT Bactericides, Disinfectants and Antiseptics
(N1-(5-methyl-3-isoxazolyl)sulfanilamide)
IT **723-46-6**, Sulfanilamide, N1-5-methyl-3-isoxazolyl- 1072-67-9, Isoxazole, 3-amino-5-methyl- 21312-10-7, Acetanilide, 4'-(5-methyl-3-isoxazolylsulfamoyl)- 93865-68-0, Sulfanilamide, N1,N4-diacetyl-N1-5-methyl-3-isoxazolyl-
(preparation of)
IT **723-46-6**, Sulfanilamide, N1-5-methyl-3-isoxazolyl-
(preparation of)
RN 723-46-6 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



L41 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1959:122295 HCAPLUS
DN 53:122295
OREF 53:**22018i,22019a-b**

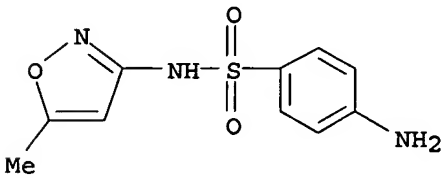
ED Entered STN: 22 Apr 2001
TI Sulfonamides
IN Kano, Hideo; Nishimura, Haruo; Nakajima, Kiyoshi; Ogata, Kazuko
PA Shionogi & Co., Ltd.
DT Patent
LA Unavailable
CC 10G (Organic Chemistry: Heterocyclic Compounds)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2888455		19590526	US	
	DE 1059459			DE	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2888455		

AB 3-Sulfanilamido-5-methylisoxazole (I) is prepared by treating p-acetamidobenzenesulfonyl chloride (II) with 3-amino-5-methyloxazole (III). Thus, 1.7 g. Et 5-methylisoxazole-3-carbamate and 5 ml. 10% NaOH were heated on water bath 8 hrs., extracted with Et2O or C6H6 and dried to give III, m. 61-2°. III (0.9 g.), 5 ml. C5H5N, and 2 g. II treated 1 hr. and diluted with H2O yielded 2.5 g. 3-acetylsulfanilamido-5-methylisoxazole, m. 220-1°, which was hydrolyzed to I by NaOH, m. 167°. Acetylation of I in C5H5N gave N1N4-diacetyl derivative, m. 209-10°. I was equally active in vitro as Sulfoisoxazole against Shigella dysenteriae, S. flexneri Y, 2, 2a, 3, 3a, 4, 4a, and S. sonnei, Salmonella paratyphi, S. schottmuellesi, S. hirschfeldii and S. typhimurium, Escherichia coli, Pseudomonas aeruginosa, Klebsiella pneumoniae, Bacillus subtilus PCI 219, Staphylococcus aureus 209 and Terashima, whereas it was 5 times as active against Mycobacterium tuberculosis H37RV. I was twice as active as IV in vivo (oral to mice).
IT Tuberculosis
(antitubercular substances, sulfanilamide derivs. as)
IT Sulfonamides
(manufacture of)
IT Bactericides, Disinfectants and Antiseptics
(sulfanilamide derivs.)
IT **723-46-6**, Sulfanilamide, N1-5-methyl-3-isoxazolyl- 835-64-3, Phenol, o-2-benzoxazolyl- 1072-67-9, Isoxazole, 3-amino-5-methyl- 21312-10-7, Acetanilide, 4'-(5-methyl-3-isoxazolylsulfamoyl)- 93865-68-0, Sulfanilamide, N1,N4-diacetyl-N1-5-methyl-3-isoxazolyl-
(preparation of)
IT **723-46-6**, Sulfanilamide, N1-5-methyl-3-isoxazolyl-
(preparation of)
RN 723-46-6 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



L41 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1959:111874 HCAPLUS
DN 53:111874
OREF 53:**20091a-d**
ED Entered STN: 22 Apr 2001

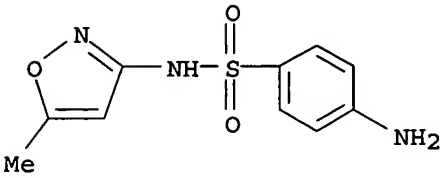
TI 3-Sulfanilamido-5-methylisoxazole
PA Shionogi & Co. Ltd.
DT Patent
LA Unavailable
CC 10G (Organic Chemistry: Heterocyclic Compounds)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI GB 814276		19590603	GB	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
GB 814276		

GI For diagram(s), see printed CA Issue.
AB The title compound (I), having antibacterial activity in vitro and in vacuo, its antibacterial activity in vitro being similar to that of sulfisoxazole (II) but having higher antituberculous activity in vitro than II, was prepared O.N:C(NHCO2Et).CH:CMe (III) (1.7 g.) and 5 cc. 10% aqueous NaOH heated 8 hrs. on a boiling water bath, the mixture extracted several times with Et2O or C6H6, the extract dried, concentrated, and the residue cooled gave O.N:C(NH2).CH:CMe (IV), m. 61-2° (C6H6). IV was also obtained by a similar hydrolysis of the corresponding PhCH2 ester, m. 80-1°, of III. IV (0.9 g.) in 5 cc. C5H5N treated with 2.00 g. 4- AcHNC6H4SO2Cl (heat generated), after 1 hr. H2O added, and the precipitate recrystd. from EtOH gave 2.5 g. 4-AcHNC6H4SO2 derivative (V), m. 220-1° (decomposition). V (2 g.) and 10 cc. aqueous NaOH heated 1 hr. in a water bath, cooled, acidified with AcOH, and the precipitate recrystd. from dilute EtOH gave 15 g. I, m. 167° (N1,N4-di-Ac derivative m. 209-10°).
IT Tuberculosis
(antitubercular substances, N1-5-methyl-3-isoxazolylsulfanilamide as)
IT Bactericides, Disinfectants and Antiseptics
(N1-(5-methyl-3-isoxazolyl)sulfanilamide)
IT **723-46-6**, Sulfanilamide, N1-5-methyl-3-isoxazolyl- 1072-67-9, Isoxazole, 3-amino-5-methyl- 21312-10-7, Acetanilide, 4'-(5-methyl-3-isoxazolylsulfamoyl)-
(preparation of)
IT **723-46-6**, Sulfanilamide, N1-5-methyl-3-isoxazolyl-
(preparation of)
RN 723-46-6 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



=> d l106 all hitstr tot

L106 ANSWER 1 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:902341 HCAPLUS
DN 141:379919
ED Entered STN: 28 Oct 2004
TI Preparation of (iso)thiazole benzenesulfonamides and other heterocycles as inhibitors of **fungal** invasion

IN **Talley, John Jeffrey**; **Fretzen, Angelika**; **Zimmerman, Craig**; **Barden, Timothy.**; **Yang, Jing Jing**; **Martinez, Eduardo**; Milne, G. Todd; **Etchell, A. Cordero**; **Christine, M. Pierce**; **Houman, Fariba**; **Busby, Robert**; **Summers, Eric F.**; Antonelli, Stephen; Lee, Peter; Farwell, Michael; Mayorga, Maria; O'Leary, Jessica

PA **Microbia, Inc., USA**

SO PCT Int. Appl., 179 pp.
CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D

CC 28-7 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): **1**, 27, **63**

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004092123	A2	20041028	WO 2004-US11187	20040412

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

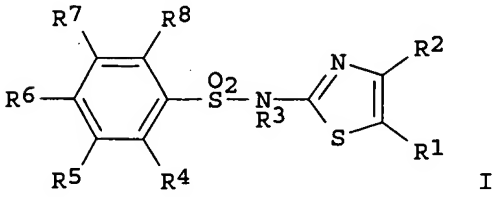
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2003-461727P	P	20030410
US 2003-469286P	P	20030509
US 2003-485678P	P	20030709

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004092123	ICM	C07D

GI



I

AB Title compds. e.g. [I; R1 = (substituted) alkyl, alkoxy; R2 = H, halo; R3 = H, CHO, Ac, (substituted) alkyl; R4 = H, halo, (substituted) alkyl, cycloalkyl, alkenyl, alkynyl, alkylamino, Ph, heteroaryl], were prepared Thus, 4-bromo-2-fluoro-N-(5-methylthiazol-2-yl)benzenesulfonamide, 4-fluorobenzeneboronic acid, Pd(PPh3)4, and K2CO3 were stirred in PhMe/Me2CHOH/H2O to give 15% 2,4'-difluoro-N-(5-methylthiazol-2-yl)-1,1'-biphenyl-4-sulfonamide. In a screen for inhibition of **Candida albicans** logarithmic phase growth, title compds. showed IC50's of as low as 0.0005 μM.

ST isothiazole benzenesulfonamide prepn **fungal** invasion inhibitor; thiazole benzenesulfonamide prepn **fungal** invasion inhibitor; piperidineamine prepn **fungal** invasion inhibitor

IT Drug delivery systems
Fungicides
Human
(preparation of (iso)thiazole benzenesulfonamides and other heterocycles as inhibitors of **fungal** invasion)

IT **Mycosis**
(treatment; preparation of (iso)thiazole benzenesulfonamides and other heterocycles as inhibitors of **fungal** invasion)

IT Proteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(yadA, inhibitors; preparation of (iso)thiazole benzenesulfonamides and other heterocycles as inhibitors of **fungal** invasion)

IT 782475-47-2P 782475-48-3P 782475-49-4P 782475-51-8P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of (iso)thiazole benzenesulfonamides and other heterocycles as inhibitors of **fungal** invasion)

IT 56-54-2 86-98-6 112-38-9, 10-Undecenoic acid 118-10-5 130-95-0
485-71-2 536-66-3 613-39-8 1033-68-7 1034-11-3 2148-57-4
3074-46-2 5605-11-8 5783-00-6 19678-70-7 20029-52-1 20651-71-2
26311-45-5 38289-27-9 38289-28-0 38289-29-1 38861-88-0
43088-67-1 56233-34-2 56233-37-5 73152-70-2 73152-71-3
76087-52-0 76087-54-2 82241-22-3 113162-02-0 122432-09-1
124532-37-2 125533-08-6 126799-52-8 135042-88-5 135042-89-6
135096-79-6 136534-55-9 138040-46-7 177971-46-9 228407-17-8
228407-18-9 228407-20-3 245764-80-1 260428-50-0 260428-72-6
294875-19-7 296797-77-8 300815-16-1 311331-34-7 311775-13-0
312264-99-6 313067-40-2 328278-96-2 328288-39-7 329080-39-9
329080-40-2 331657-62-6 331853-89-5 331856-28-1 331977-70-9
331977-96-9 333311-74-3 334526-17-9 334762-35-5 334800-96-3
334801-52-4 334801-64-8 334801-65-9 334801-66-0 334880-64-7
335108-62-8 335282-56-9 336176-46-6 337315-05-6 342384-38-7
342594-44-9 344455-11-4 346692-29-3 352687-95-7 353478-74-7
358364-07-5 376380-24-4 379245-32-6 380473-02-9 380568-17-2
400752-51-4 414872-47-2 414877-14-8 414882-29-4 414885-32-8
414889-26-2 414889-40-0 415926-54-4 415932-05-7 415956-16-0
415958-40-6 415967-94-1 415969-35-6 416861-82-0 416861-85-3
416862-79-8 419575-93-2 421560-85-2 423734-83-2 425664-71-7
433248-90-9 433689-25-9 465534-58-1 470699-66-2 473257-27-1
474089-57-1 495398-32-8 518359-30-3 676546-20-6 680181-83-3
681212-80-6 681801-47-8 683205-33-6 717823-49-9 782475-55-2
782475-56-3 782475-57-4 782475-58-5 782475-59-6 782475-60-9
782475-61-0 782475-62-1 782475-63-2 782475-64-3 782475-65-4
782475-66-5 782475-67-6 782475-68-7 782475-69-8 782475-70-1
782475-71-2 782475-72-3 782475-73-4 782475-74-5 782475-75-6
782475-76-7 782475-77-8 782475-78-9 782475-79-0 782475-80-3
782475-81-4 782475-82-5 782475-84-7 782475-87-0 782475-90-5
782475-92-7 782475-94-9 782475-95-0 782475-96-1 782475-97-2
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782476-03-3 782476-04-4 782476-05-5 782476-06-6 782476-07-7
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782476-63-5 782476-64-6 782476-65-7 782476-66-8 782476-67-9

782476-68-0 782476-69-1 782476-70-4 782476-71-5 782476-72-6
782476-73-7 782476-74-8 782476-75-9 782476-76-0 782476-77-1
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(preparation of (iso)thiazole benzenesulfonamides and other heterocycles as inhibitors of **fungal** invasion)

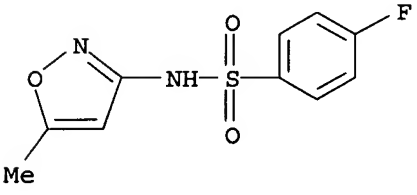
IT 782476-78-2 782476-79-3 782476-80-6 782476-81-7 782476-82-8
782476-83-9 782476-84-0 782476-85-1 782476-86-2 782476-87-3
782476-88-4 782476-89-5 782476-90-8 782476-91-9 782476-92-0
782476-93-1 782476-94-2 782476-95-3 782476-96-4 782476-97-5
782476-98-6 782476-99-7 782477-00-3 782477-01-4 782477-02-5
782477-03-6 782477-04-7 782477-05-8 782477-06-9 782477-07-0
782477-08-1 782477-09-2 782477-10-5 782477-11-6 782477-12-7
782477-13-8 782477-14-9 782477-15-0 782477-16-1 782477-17-2
782477-18-3 782477-19-4 782477-20-7 782477-21-8 782477-22-9
782477-23-0 782477-24-1 782477-25-2 782477-26-3 782477-27-4
782477-28-5 782477-29-6 782477-30-9 782477-31-0 782478-59-5
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(preparation of (iso)thiazole benzenesulfonamides and other heterocycles as inhibitors of **fungal** invasion)

IT 71-23-8, 1-Propanol, reactions 98-58-8, 4-Bromobenzenesulfonyl chloride 1765-93-1, 4-Fluorobenzeneboronic acid 73579-08-5, 1-Methyl-4-methylaminopiperidine 79124-76-8, 3-(3,4-Dichlorophenoxy)benzaldehyde 92274-43-6 128146-85-0, 3-Amino-5-methylisothiazole **349624-47-1**, 4-Fluoro-N-(5-methylisoxazol-3-yl)benzenesulfonamide 782475-54-1, 4-Bromo-2-fluoro-N-(5-methyl-1,3-thiazol-2-yl)benzenesulfonamide
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of (iso)thiazole benzenesulfonamides and other heterocycles as inhibitors of **fungal** invasion)

IT 782475-52-9P, 4-Bromo-N-(5-methylisothiazol-3-yl)benzenesulfonamide 782475-53-0P, 4-Fluoro-N-(5-methylisothiazol-3-yl)benzenesulfonamide
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of (iso)thiazole benzenesulfonamides and other heterocycles as inhibitors of **fungal** invasion)

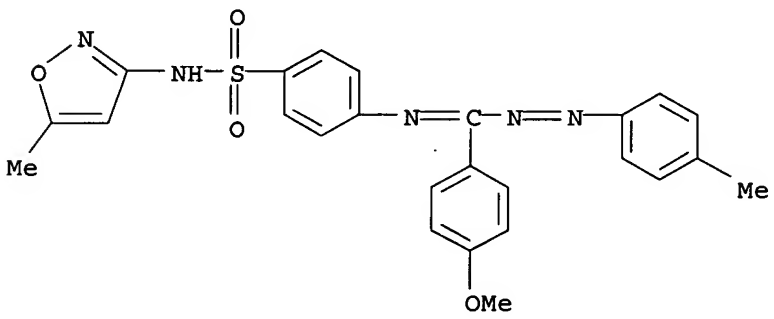
IT **349624-47-1**, 4-Fluoro-N-(5-methylisoxazol-3-yl)benzenesulfonamide
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of (iso)thiazole benzenesulfonamides and other heterocycles as inhibitors of **fungal** invasion)

RN 349624-47-1 HCAPLUS
CN Benzenesulfonamide, 4-fluoro-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



L106 ANSWER 2 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2003:395475 HCAPLUS
DN 139:364394
ED Entered STN: 23 May 2003
TI Some antimicrobial agents
AU Tandel, D. C.; Naik, Bhavin; Patel, Dinesh; Desai, C. M.; Joshi, H. D.
CS Themis Medicare Ltd., Vapi, 396 195, India
SO Journal of the Institution of Chemists (India) (**2002**), 74(5),

149-152
CODEN: JOICA7; ISSN: 0020-3254
PB Institution of Chemists (India)
DT Journal
LA English
CC 21-2 (General Organic Chemistry)
Section cross-reference(s): 1, 10
OS CASREACT 139:364394
AB Methylphenyl, chlorophenyl, methoxyphenyl, and nitrophenyl formazans are prepared and show antibacterial activities.
ST formazan aryl deriv prepn antibacterial activity; piperazinyl formazan prepn antibacterial activity; isoxazolyl formazan prepn antibacterial activity
IT **Infection**
(bacterial; preparation and antibacterial activity of arylformazans)
IT Antibacterial agents
Tuberculosis
Tuberculostatics
(preparation and antibacterial activity of arylformazans)
IT 14184-95-3P 21258-05-9P **622841-71-8P** 622841-72-9P
622841-73-0P 622841-74-1P 622841-75-2P
RL: **PAC (Pharmacological activity)**; SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antibacterial activity of arylformazans)
IT 57-67-0, Sulfaguanidine 1762-95-4, Ammonium thiocyanate 3282-30-2, Pivaloyl chloride 34033-44-8, 2,4-Dichloro-5-nitroaniline 81747-12-8 439601-28-2 622841-76-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and antibacterial activity of arylformazans)
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Connors, H; Textbook of Pharmaceutical Analysis, 3rd Edn 1982, P60
(2) Desai, C; Asian J Chem 1998, V10, P370
(3) Desai, C; Asian J Chem 1998, V10, P615
(4) Desai, C; Indian J Chem 1996, V35B, P871
(5) Desai, C; J Inst Chemists (India) 1998, V70, P106
IT **622841-71-8P**
RL: **PAC (Pharmacological activity)**; SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antibacterial activity of arylformazans)
RN 622841-71-8 HCAPLUS
CN Benzenesulfonamide, 4-[[(4-methoxyphenyl)[(4-methylphenyl)azo]methylene]amino]-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



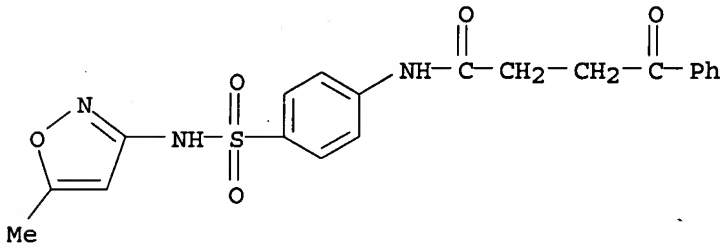
L106 ANSWER 3 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2002:821007 HCAPLUS
DN 138:337794
ED Entered STN: 29 Oct 2002

TI Synthesis of some new prodrugs of sulphonamides and studies on their antimicrobial and anti-inflammatory action
AU Khan, M. S. Y.; Husain, A.; Hasan, S. M.; Akhter, M.
CS Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Jamia Hamdard (Hamdard University), New Delhi, 110 062, India
SO Scientia Pharmaceutica (**2002**), 70(3), 277-286
CODEN: SCPHA4; ISSN: 0036-8709
PB Oesterreichische Apotheker-Verlagsgesellschaft
DT Journal
LA English
CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 1
OS CASREACT 138:337794
AB Various amide-based prodrugs of sulfonamides have been synthesized by condensing appropriate sulfonamide moiety with different β-aroyl propionic acids. All the compds. have been evaluated for their antimicrobial and anti-inflammatory activities. Their structures were established on the basis of elemental anal., 1H NMR and Mass spectral data. Some of these compds. were found to have significant activity.
ST synthesis prodrug aroylpropionic acid sulfonamide antimicrobial antiinflammatory
IT **Infection**
(bacterial; synthesis of some new prodrugs of sulfonamides with β-aroyl propionic acids and their antimicrobial and anti-inflammatory action)
IT Drug delivery systems
(prodrugs; synthesis of some new prodrugs of sulfonamides with β-aroyl propionic acids and their antimicrobial and anti-inflammatory action)
IT Anti-inflammatory agents
Antibacterial agents
Inflammation
(synthesis of some new prodrugs of sulfonamides with β-aroyl propionic acids and their antimicrobial and anti-inflammatory action)
IT **515144-84-0P** 515144-85-1P 515144-86-2P 515144-87-3P
515144-88-4P 515144-89-5P **515144-90-8P** 515144-91-9P
515144-92-0P 515144-93-1P 515144-94-2P 515144-95-3P
515144-96-4P 515144-97-5P
RL: **PAC (Pharmacological activity)**; SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis of some new prodrugs of sulfonamides with β-aroyl propionic acids and their antimicrobial and anti-inflammatory action)
IT 63-74-1 68-35-9 106-39-8 106-43-4 108-30-5, Succinic anhydride, reactions 622-98-0 723-46-6 2051-62-9 7005-72-3 515144-98-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis of some new prodrugs of sulfonamides with β-aroyl propionic acids and their antimicrobial and anti-inflammatory action)
IT 2051-95-8P 3984-34-7P 4619-20-9P 36330-85-5P 36330-86-6P 49594-75-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of some new prodrugs of sulfonamides with β-aroyl propionic acids and their antimicrobial and anti-inflammatory action)
RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Anand, N; Burger's Medicinal Chemistry, ed 4 1979, P34
(2) Cruickshank, R; Medical Microbiology 1975, V2, P2
(3) Forster, W; Am J Ophthalmol 1944, V27C, P1107
(4) Husain, A; PhD Thesis, Jamia Hamdard (Hamdard University) 2000
(5) Kohler, C; Arzneim-Forsch 1980, V30(4A), P702 HCAPLUS
(6) Newbould, B; Brit J Pharmacol 1963, V21, P157
(7) Northey, E; American Chemical Society Monograph Sereis 1948
(8) Sabin, A; J Bacteriol 1941, V41(M 50), P80

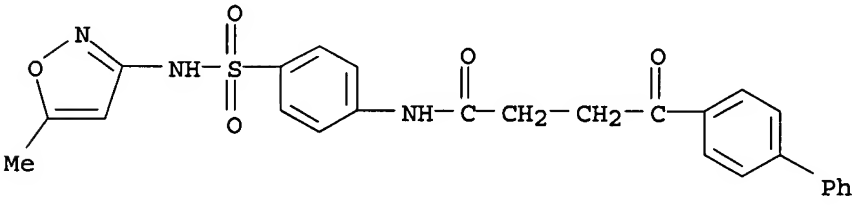
(9) Schwartz, W; New Engl J Med 1949, P240
(10) Sloboda, A; Arzneim-Forsch 1980, V30(4A), P716 HCAPLUS
(11) Testa, B; Drug Metabolism, Chemical and Biochemical aspect 1976, P138
(12) Wilhemi, G; Pharmacology 1972, V8, P321
(13) Winter, C; Proc Soc Exp Biol 1962, V111, P544 HCAPLUS

IT **515144-84-0P 515144-88-4P 515144-90-8P**
515144-96-4P
RL: **PAC (Pharmacological activity)**; SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis of some new prodrugs of sulfonamides with β-aroyl propionic acids and their antimicrobial and anti-inflammatory action)

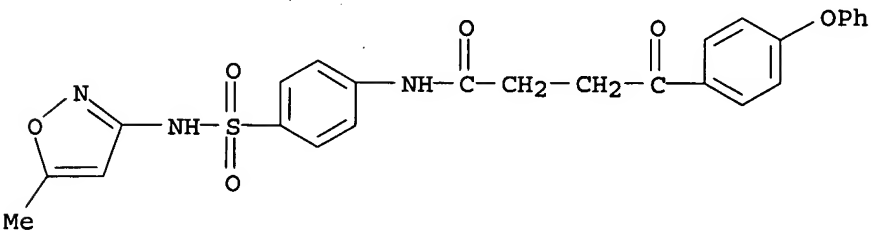
RN 515144-84-0 HCAPLUS
CN Benzenebutanamide, N-[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]-γ-oxo- (9CI) (CA INDEX NAME)



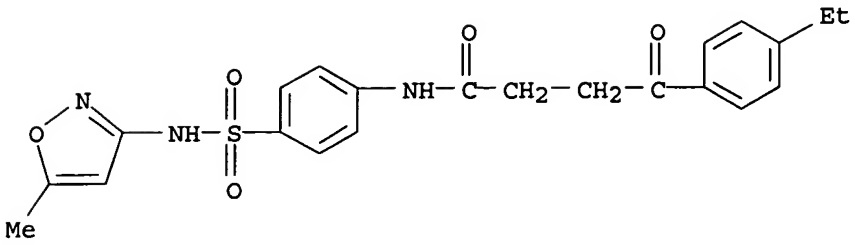
RN 515144-88-4 HCAPLUS
CN [1,1'-Biphenyl]-4-butanamide, N-[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]-γ-oxo- (9CI) (CA INDEX NAME)



RN 515144-90-8 HCAPLUS
CN Benzenebutanamide, N-[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]-γ-oxo-4-phenoxy- (9CI) (CA INDEX NAME)

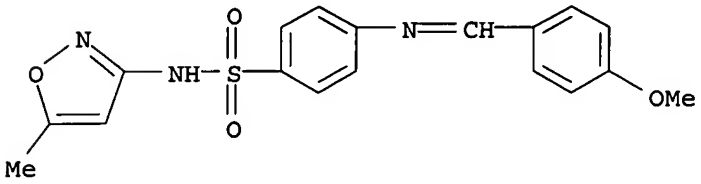


RN 515144-96-4 HCAPLUS
CN Benzenebutanamide, 4-ethyl-N-[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]-γ-oxo- (9CI) (CA INDEX NAME)

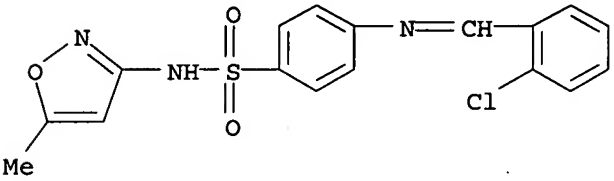


L106 ANSWER 4 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2002:199645 HCAPLUS
DN 137:63192
ED Entered STN: 19 Mar 2002
TI Benzylidene derivatives as antitubercular and antibacterial agents
AU Tandel, D. C.; Desai, C. M.; Patel, Dinesh; Naik, Bhavin; Marjadi, Sunil
CS Themis Medicare, GIDC, Vapi, India
SO Oriental Journal of Chemistry (**2001**), 17(3), 519-520
CODEN: OJCHEG; ISSN: 0970-020X
PB Oriental Scientific Publishing Co.
DT Journal
LA English
CC 28-6 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1, 26
OS CASREACT 137:63192
AB Antitubercular/antibacterial testing is reported keeping in mind different types of structures linked to benzylidene moiety having activity at 5 μg/mL against H37Rv.
ST bactericide antitubercular benzylidene sulfamethoxazole piperazine penicillanic acid prepn; tuberculostatic antibacterial benzylidene sulfamethoxazole piperazine penicillanic acid prepn
IT Antibacterial agents
Tuberculostatics
(preparation of benzylidenesulfamethoxazole, -piperazine and -penicillanic acids)
IT 81747-12-8P 401596-90-5P **439601-28-2P 439601-29-3P**
439601-30-6P 439601-31-7P 439601-32-8P
RL: **PAC (Pharmacological activity)**; SPN (Synthetic preparation);
BIOL (Biological study); PREP (Preparation)
(preparation of benzylidenesulfamethoxazole, -piperazine and -penicillanic acids)
IT 86-81-7, 3,4,5-Trimethoxybenzaldehyde 87-53-6, Penicillanic acid
89-98-5, 2-Chlorobenzaldehyde 109-01-3, 1-Methylpiperazine 123-11-5, 4-Methoxybenzaldehyde, reactions 723-46-6, Sulfamethoxazole
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of benzylidenesulfamethoxazole, -piperazine and -penicillanic acids)
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Conors, H; Text book of Pharmaceutical Analysis 3rd Ed 1982, P06
(2) Desai, C; Asian J Chem 1998, V10, P370
(3) Desai, C; Asian J Chem 1998, V10, P615
(4) Desai, C; Indian J Chem 1996, V35B, P871
(5) Desai, C; J Inst Chemists 1998, V70, P106
(6) Desai, C; J Inst Chemists 2000, V72, P117
IT **439601-28-2P 439601-29-3P 439601-30-6P**
RL: **PAC (Pharmacological activity)**; SPN (Synthetic preparation);
BIOL (Biological study); PREP (Preparation)
(preparation of benzylidenesulfamethoxazole, -piperazine and -penicillanic acids)

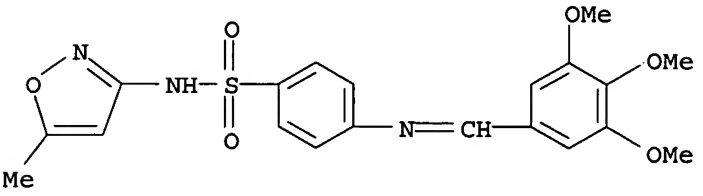
RN 439601-28-2 HCAPLUS
CN Benzenesulfonamide, 4-[[(4-methoxyphenyl)methylene]amino]-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



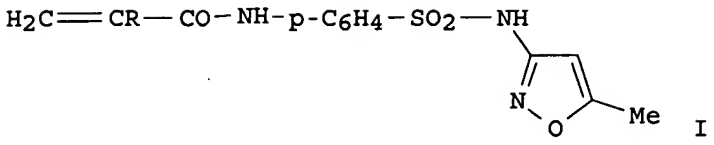
RN 439601-29-3 HCAPLUS
CN Benzenesulfonamide, 4-[[(2-chlorophenyl)methylene]amino]-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



RN 439601-30-6 HCAPLUS
CN Benzenesulfonamide, N-(5-methyl-3-isoxazolyl)-4-[[(3,4,5-trimethoxyphenyl)methylene]amino]- (9CI) (CA INDEX NAME)



L106 ANSWER 5 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2002:1364 HCAPLUS
DN 137:206324
ED Entered STN: 31 Dec 2001
TI Synthesis, characterization and pharmacologically active sulfamethoxazole polymers
AU Thamizharasi, S.; Vasantha, J.; Reddy, B. S. R.
CS Central Leather Research Institute, Adyar, Chennai, 600 020, India
SO European Polymer Journal (**2002**), 38(3), 551-559
CODEN: EUPJAG; ISSN: 0014-3057
PB Elsevier Science Ltd.
DT Journal
LA English
CC 63-5 (**Pharmaceuticals**)
Section cross-reference(s): 10, 28, 35
GI



AB Three antimicrobial pharmaceutical drugs were synthesized from two different synthetic routes. 4-acrylamido-N-(5-methyl-3-isoxazolyl)benzenesulfonamide (AMBS) I (R = H) and 4-methacrylamido-N-(5-methyl-3-isoxazolyl)benzenesulfonamide (MMBS) I (R = Me) were prepared by reacting acryloyl chloride and methacryloyl chloride with 4-amino-N-(5-methyl-3-isoxazolyl)benzenesulfonamide in the presence of triethylamine. N-[4-sulfamido-N-(5-methyl-3-isoxazolyl)phenyl]maleimide (SMPM) was prepared by reacting maleic anhydride with 4-amino-N-(5-methyl-3-isoxazolyl)benzenesulfanamide. These monomers (AMBS, MMBS and SMPM) were polymerized using BPO as a free radical initiator. The pharmacol. activity of SMPM compound depends on the functional group in the structure and small structural changes has resulted in higher pharmacol. activity of sulfamethoxazole. Thus, maleimide polymer drug conjugate showed greater anti-microbial activity when compared with that of the native drug.

ST antimicrobial sulfamethoxazole polymer prepn

IT Antimicrobial agents
Fungicides
(synthesis, characterization and pharmacol. active sulfamethoxazole polymers)

IT **152208-95-2P 452971-78-7P 452971-80-1P**
RL: **PAC (Pharmacological activity)**; RCT (Reactant); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(synthesis, characterization and pharmacol. active sulfamethoxazole polymers)

IT **452971-84-5P 452971-86-7P 452971-88-9P**
RL: **PAC (Pharmacological activity)**; SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis, characterization and pharmacol. active sulfamethoxazole polymers)

IT **723-46-6**, 4-Amino-N-(5-methyl-3-isoxazolyl)benzenesulfonamide
814-68-6, Acryloyl chloride 920-46-7, Methacryloyl chloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis, characterization and pharmacol. active sulfamethoxazole polymers)

IT **452971-82-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis, characterization and pharmacol. active sulfamethoxazole polymers)

RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

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(2) Ballesteros, J; J Med Chem 1995, V38, P2794 HCAPLUS
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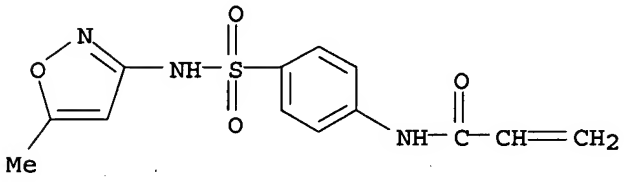
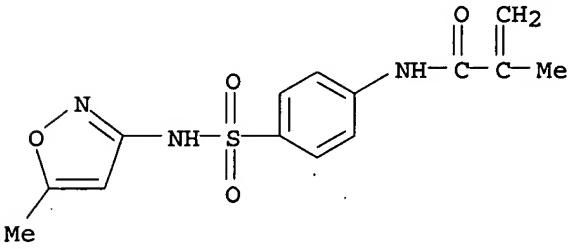
(16) Shubhaish, M; Bioorg Med Chem 2001, V9, P337
(17) Simon, F; Bioorg Med Chem 1998, V6, P937
(18) Tsuchiya, H; Pharmazie 1994, V49, P756 HCAPLUS

IT **152208-95-2P 452971-78-7P 452971-80-1P**
RL: **PAC (Pharmacological activity)**; RCT (Reactant); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(synthesis, characterization and pharmacol. active sulfamethoxazole polymers)

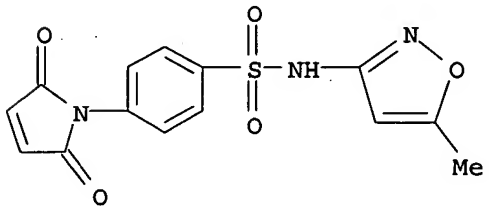
RN 152208-95-2 HCAPLUS
CN 2-Propenamide, N-[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]- (9CI) (CA INDEX NAME)



RN 452971-78-7 HCAPLUS
CN 2-Propenamide, 2-methyl-N-[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]- (9CI) (CA INDEX NAME)



RN 452971-80-1 HCAPLUS
CN Benzenesulfonamide, 4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)

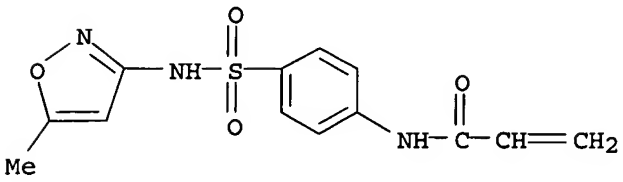


IT **452971-84-5P 452971-86-7P 452971-88-9P**
RL: **PAC (Pharmacological activity)**; SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis, characterization and pharmacol. active sulfamethoxazole polymers)

RN 452971-84-5 HCAPLUS
CN 2-Propenamide, N-[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]-, homopolymer (9CI) (CA INDEX NAME)

CM 1

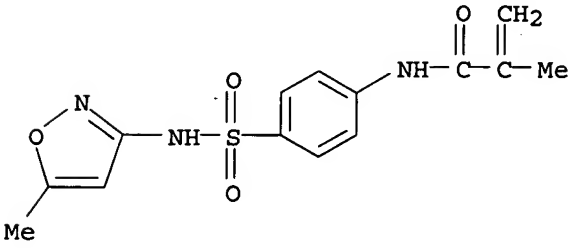
CRN 152208-95-2
CMF C13 H13 N3 O4 S



RN 452971-86-7 HCAPLUS
CN 2-Propenamide, 2-methyl-N-[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]-, homopolymer (9CI) (CA INDEX NAME)

CM 1

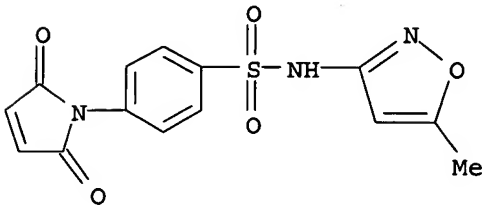
CRN 452971-78-7
CMF C14 H15 N3 O4 S



RN 452971-88-9 HCAPLUS
CN Benzenesulfonamide, 4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-N-(5-methyl-3-isoxazolyl)-, homopolymer (9CI) (CA INDEX NAME)

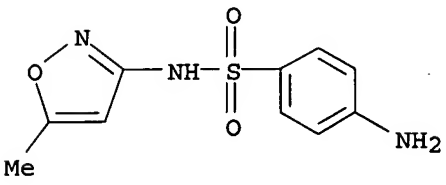
CM 1

CRN 452971-80-1
CMF C14 H11 N3 O5 S



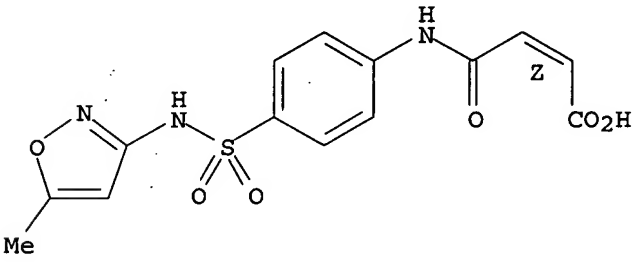
IT **723-46-6**, 4-Amino-N-(5-methyl-3-isoxazolyl)benzenesulfonamide
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis, characterization and pharmacol. active sulfamethoxazole polymers)

RN 723-46-6 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



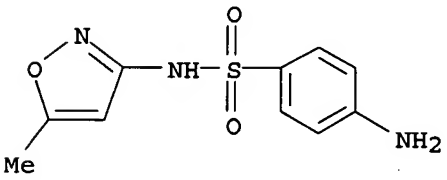
IT **452971-82-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis, characterization and pharmacol. active sulfamethoxazole polymers)
RN 452971-82-3 HCAPLUS
CN 2-Butenoic acid, 4-[[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]amino]-4-oxo-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L106 ANSWER 6 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:807732 HCAPLUS
DN 137:135570
ED Entered STN: 07 Nov 2001
TI Detection of MecA Gene in methicillin-resistant Staphylococcus by PCR
AU Hou, Xiaona; Ding, Xuesong; Yu, Xiaonan; **Yang, Jing**; Xie, Licheng; Ren, Wei
CS Department of Clinical Laboratory, General Hospital of Shenyang Command, Shenyang, 110016, Peop. Rep. China
SO Zhongguo Gonggong Weisheng (**2001**), 17(9), 847-848
CODEN: ZGWEE3; ISSN: 1001-0580
PB Zhongguo Gonggong Weisheng Zazhishe
DT Journal
LA Chinese
CC 3-1 (Biochemical Genetics)
Section cross-reference(s): 10
AB The polymerase chain reaction (PCR) for identification of clin. Staphylococcal isolates was presented. MecA gene in methicillin-resistant Staphylococcus (MRS) was identified by PCR and Oxacillin disk diffusion method in 161 clin. S. isolates. Among the 161 S. isolates, there were 4 strains neg. for mecA gene by PCR, while resistant by disk diffusion. 3 Of 161 MRS strains showed borderline resistance. All three strains were tested pos. for mecA by PCR. The consistence of two methods was 96.89%. The results showed that PCR for rapid identification of MRS was superior to disk diffusion method, preferably for borderline-resistant strains.
ST mecA gene detection methicillin resistant Staphylococcus PCR; antibiotic resistance detection Staphylococcus PCR

IT PCR (polymerase chain reaction)
Staphylococcus
(detection of MecA gene in methicillin-resistant Staphylococcus)
IT Antibiotic resistance
(detection of; detection of MecA gene in methicillin-resistant Staphylococcus)
IT Gene, microbial
RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)
(mecA; detection of MecA gene in methicillin-resistant Staphylococcus)
IT 61-32-5, Methicillin
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(detection of MecA gene in methicillin-resistant Staphylococcus)
IT 56-75-7, Chloramphenicol 60-54-8, Tetracycline 66-79-5, Oxacillin 114-07-8, Erythromycin **723-46-6**, Sinomin 1403-66-3, Gentamycin 1404-90-6, Vancomycin 1406-05-9, Penicillin 13292-46-1, Rifampicin 18323-44-9, Clindamycin 25953-19-9, Cefazolin 85721-33-1, Ciprofloxacin
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(resistance to, detection of; detection of MecA gene in methicillin-resistant Staphylococcus)
IT **723-46-6**, Sinomin
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(resistance to, detection of; detection of MecA gene in methicillin-resistant Staphylococcus)
RN 723-46-6 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



L106 ANSWER 7 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:799063 HCAPLUS
DN 136:95637
ED Entered STN: 04 Nov 2001
TI Rifampin reduces concentrations of trimethoprim and sulfamethoxazole in serum in human immunodeficiency virus-infected patients
AU Ribera, Esteban; Pou, Leonor; Fernandez-Sola, Antoni; Campos, Francisco; Lopez, Rosa M.; Ocana, Imma; Ruiz, Isabel; Pahissa, Albert
CS Infectious Disease Service, Hospital Vall d'Hebron, Autonomous University of Barcelona, Barcelona, Spain
SO Antimicrobial Agents and Chemotherapy (**2001**), 45(11), 3238-3241
CODEN: AMACCQ; ISSN: 0066-4804
PB American Society for Microbiology
DT Journal
LA English
CC 1-5 (Pharmacology)
AB To determine whether rifampin reduces concns. of trimethoprim (TMP) and sulfamethoxazole (SMX) in serum of human immunodeficiency virus (HIV)-infected persons, levels of these agents were determined by high-performance liquid chromatog. before and after more than 12 days of standard antituberculosis treatment for 10 patients who had been taking one double-strength tablet of co-trimoxazole once daily for more than 1 mo. Statistically significant, 47 and 23% decreases in TMP and SMX mean areas under the concentration-time curve from 0 to 24 h (AUC0-24), resp., were observed

after administration of rifampin. N-Acetyl-SMX profiles without and with rifampin were similar. The steady-state AUC0-24 metabolite/parent drug ratio increased by 32% with rifampin administration. Our study shows that rifampin reduces profiles of TMP and SMX in serum of HIV-infected patients.

ST tuberculostatic rifampin serum trimethoprim sulfamethoxazole HIV

IT Drug interactions
(adverse; rifampin reduces concns. of serum trimethoprim and sulfamethoxazole in human immunodeficiency virus-infected patients)

IT Drug interactions
(pharmacokinetic; rifampin reduces concns. of serum trimethoprim and sulfamethoxazole in human immunodeficiency virus-infected patients)

IT Bioavailability
Human
Human immunodeficiency virus 1
Tuberculostatics
(rifampin reduces concns. of serum trimethoprim and sulfamethoxazole in human immunodeficiency virus-infected patients)

IT 13292-46-1, Rifampin
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(rifampin reduces concns. of serum trimethoprim and sulfamethoxazole in HIV-infected patients)

IT 723-46-6, Sulfamethoxazole 738-70-5, Trimethoprim 8064-90-2, Co-trimoxazole
RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(rifampin reduces concns. of serum trimethoprim and sulfamethoxazole in human immunodeficiency virus-infected patients)

IT **21312-10-7**
RL: **PKT (Pharmacokinetics)**; BIOL (Biological study)
(rifampin reduces concns. of serum trimethoprim and sulfamethoxazole in human immunodeficiency virus-infected patients)

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Burman, W; Clin Infect Dis 1999, V28, P419 HCAPLUS
(2) Centers for Disease Control and Prevention; Morb Mortal Wkly Rep 1999, V48, P1
(3) Cribb, A; Drug Metab Dispos 1995, V23, P406 HCAPLUS
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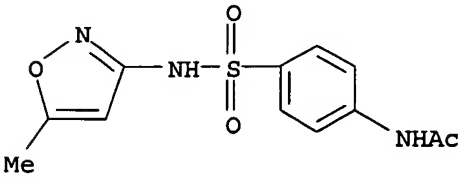
(6) Li, A; Chem-Biol Interact 1997, V107, P17 HCAPLUS
(7) Pozniak, A; AIDS 1999, V13, P435 HCAPLUS
(8) Ribera, E; Clin Infect Dis 1999, V29, P1461 HCAPLUS
(9) US Pharmacopeia; USP-DI drug information for the health care provider, 2nd ed 2000, P3059
(10) Van der Ven, A; Br J Clin Pharmacol 1995, V39, P621 MEDLINE

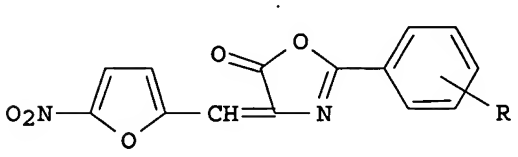
IT **21312-10-7**
RL: **PKT (Pharmacokinetics)**; BIOL (Biological study)
(rifampin reduces concns. of serum trimethoprim and sulfamethoxazole in human immunodeficiency virus-infected patients)

RN 21312-10-7 HCAPLUS

CN Acetamide, N-[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]- (9CI) (CA INDEX NAME)



L106 ANSWER 8 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:648474 HCAPLUS
DN 136:183742
ED Entered STN: 05 Sep 2001
TI Synthesis of some new 2-aryl-4-(5-nitro-2-furfurylidene)-2-oxazolin-5-ones and their antimicrobial activity
AU El-Sayed, A. S.
CS Chemistry Department, Faculty of Science, Al-Azhar University, Nasr City, Egypt
SO Al-Azhar Journal of Pharmaceutical Sciences (**2000**), 26, 232-242
CODEN: AAJPFT; ISSN: 1110-1644
PB Al-Azhar University, Faculty of Pharmacy
DT Journal
LA English
CC 28-6 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): **1**
OS CASREACT 136:183742
GI



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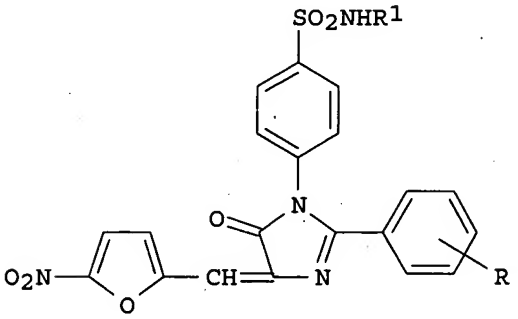
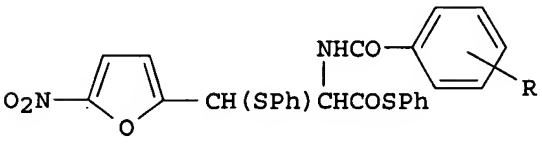


II



III

AB The title compds. (I; R = Ph, p-anisyl, 3,4-dimethoxyphenyl) were synthesized by reacting N-aroylglycines with 5-nitrofurfural. Imidazolin-5-one sulfonamide derivs. [II; same R; R1 = H, (un)substituted 2-pyrimidinyl, 2-thiazolyl, 5-methyl-3-isoxazolyl] were synthesized by reacting I with sulfanilamide derivs. Hydrazides and hydrazones were also prepared Reaction of I with thiophenol gave bis(phenylthio) amides (III, same R). Antibacterial and **antifungal** activities were determined for the products.
ST oxazolinone aryl nitrofurfurylidene prepn reaction antimicrobial activity; antibacterial activity aryloxazolinone nitrofurfurylidene deriv reaction product; **antifungal** activity aryloxazolinone nitrofurfurylidene deriv reaction product
IT Antibacterial agents

Fungicides
(2-aryl-4-(5-nitro-2-furfurylidene)-2-oxazolin-5-ones and their reaction products)

IT 16237-69-7P 399510-35-1P 399510-36-2P 399510-55-5P 399510-56-6P 399510-57-7P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(antimicrobial activity of 2-aryl-4-(5-nitro-2-furfurylidene)-2-oxazolin-5-ones and their reaction products)

IT 399510-37-3P 399510-38-4P 399510-39-5P 399510-40-8P 399510-41-9P
399510-42-0P 399510-43-1P 399510-44-2P 399510-45-3P
399510-46-4P 399510-47-5P **399510-48-6P** 399510-49-7P
399510-50-0P 399510-51-1P 399510-52-2P 399510-53-3P
399510-54-4P 399510-58-8P 399510-59-9P 399510-60-2P
399510-61-3P 399510-62-4P 399510-63-5P
RL: **PAC (Pharmacological activity)**; SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(antimicrobial activity of 2-aryl-4-(5-nitro-2-furfurylidene)-2-oxazolin-5-ones and their reaction products)

IT 57-68-1 63-74-1, Sulfanilamide 68-35-9 72-14-0 127-79-7 495-69-2, N-Phenylglycine 698-63-5, 5-Nitrofurfural, reactions **723-46-6** 13214-64-7 59893-89-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(antimicrobial activity of 2-aryl-4-(5-nitro-2-furfurylidene)-2-oxazolin-5-ones and their reaction products)

IT 108-98-5, Thiophenol, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with aryl(nitrofurfurylidene)oxazolinones)

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Archer, S; US 3365453 1968 HCAPLUS
(2) El-Sharief, A; Egypt J Chem 1985, V28, P1 HCAPLUS
(3) Eyada, H; Egypt J Appl Sci 1995, V10(4), P602
(4) Horsfall, J; Bot Rev 1945, V11, P357 HCAPLUS
(5) Lee Pyman, F; J Indian Chem Soc 1937, V56, P789
(6) Murrarihall, D; J Chem Soc 1950, P1842
(7) Patra, A; J Indian Chem Soc 1987, V64, P414 HCAPLUS
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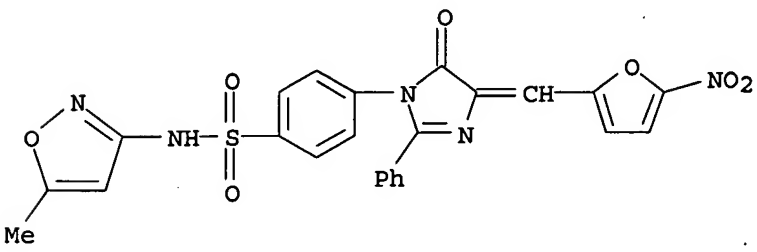
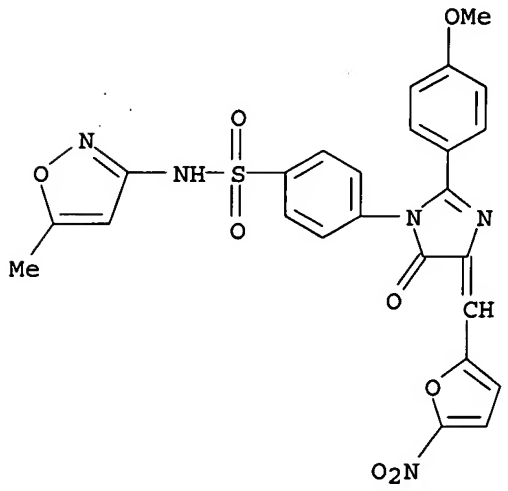
(9) Thompsom, P; Ann Rev Pharmacol 1967, V7, P77
(10) Truitt, P; J Org Chem 1960, V25, P1460 HCAPLUS
(11) Verma, R; Indian J Microbiol 1973, V13, P45

IT **399510-42-0P 399510-48-6P 399510-54-4P**
RL: **PAC (Pharmacological activity)**; SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(antimicrobial activity of 2-aryl-4-(5-nitro-2-furfurylidene)-2-oxazolin-5-ones and their reaction products)

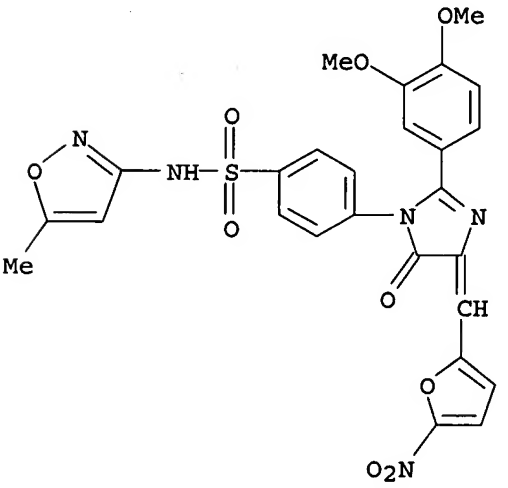
RN 399510-42-0 HCAPLUS
CN Benzenesulfonamide, 4-[4,5-dihydro-4-[(5-nitro-2-furanyl)methylene]-5-oxo-2-phenyl-1H-imidazol-1-yl]-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



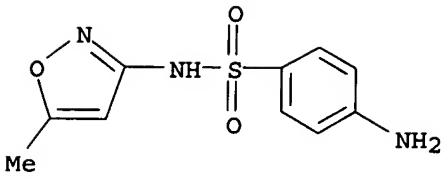
RN 399510-48-6 HCAPLUS
CN Benzenesulfonamide, 4-[4,5-dihydro-2-(4-methoxyphenyl)-4-[(5-nitro-2-furanyl)methylene]-5-oxo-1H-imidazol-1-yl]-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



RN 399510-54-4 HCAPLUS
CN Benzenesulfonamide, 4-[2-(3,4-dimethoxyphenyl)-4,5-dihydro-4-[(5-nitro-2-furanyl)methylene]-5-oxo-1H-imidazol-1-yl]-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



IT **723-46-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(antimicrobial activity of 2-aryl-4-(5-nitro-2-furfurylidene)-2-oxazolin-5-ones and their reaction products)
RN 723-46-6 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



L106 ANSWER 9 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:564833 HCAPLUS
DN 135:152367
ED Entered STN: 03 Aug 2001
TI Nitrate salts of antimicrobial agents
IN Del Soldato, Piero; Benedini, Francesca; Antognazza, Patrizia
PA Nicox S.A., Fr.
SO PCT Int. Appl., 105 pp.
CODEN: PIXXD2
DT Patent
LA English
IC A61K031-43; A61P031-10
CC 21-2 (General Organic Chemistry)
Section cross-reference(s): 1
FAN.CNT 1

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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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	EP 1253924	A1	20021106	EP 2001-909631	20010116 <--
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	US 6794372	B2	20040921		
PRAI	IT 2000-MI92	A	20000126 <--		
	WO 2001-EP430	W	20010116 <--		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001054691	IC	A61K031-43IC A61P031-10
US 2003105066	ECLA	C07C237/26; C07D215/32; C07D215/56B; C07D233/94; C07D239/48B5B; C07D241/24B; C07D261/16; C07D295/14B1B; C07D295/20D2; C07D405/12+307B+233; C07D473/00B4; C07D499/00; C07D051/00 <--

OS MARPAT 135:152367
AB Nitrate salts of antiviral, **antifungal**, and antibacterial agents such as acyclovir, tetracycline, etc. were prepared Growth inhibition of, e.g., an S. Aureus strain by title compds. was demonstrated.
ST antimicrobial agent nitrate salt prepn
IT Antibacterial agents
Antiviral agents
Fungicides
(nitrate salts of antimicrobial agents)

IT 747-33-1P, Quinine nitrate 3688-73-1P, Streptomycin nitrate 5313-38-2P
41595-70-4P, Doxycycline nitrate 54546-29-1P, Ethionamide nitrate
61566-15-2P 102083-92-1P 107740-98-7P 151901-99-4P, Homidium nitrate
190912-51-7P 198080-50-1P 219720-43-1P 223253-05-2P, L-Arginine
nitrate 257613-01-7P 257613-02-8P 257613-04-0P 352464-47-2P
352464-48-3P 352464-49-4P 352464-50-7P 352464-51-8P
352464-52-9P 352464-53-0P 352464-54-1P 352464-55-2P
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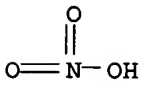
352466-71-8P 352466-72-9P 352466-73-0P 352466-74-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(nitrate salts of antimicrobial agents)

IT 352466-75-2P 352466-76-3P 352466-77-4P, Amikacin nitrate
352466-78-5P 352466-79-6P 352466-80-9P 352466-81-0P 352466-82-1P
352466-83-2P 352466-84-3P 352466-85-4P 352466-86-5P 352466-87-6P
352466-88-7P 352466-89-8P 352466-90-1P 352466-91-2P 352466-92-3P
352466-93-4P 352466-94-5P 352466-95-6P 352466-96-7P 352466-97-8P
352466-98-9P 352466-99-0P 352467-09-5P 352467-10-8P 352518-08-2P
352533-70-1P 352533-93-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(nitrate salts of antimicrobial agents)
IT 64-75-5, Tetracycline hydrochloride 69-53-4, Ampicillin 98-96-4, Pyrazinamide 110-52-1, 1,4-Dibromobutane 114-07-8, Erythromycin 443-48-1, Metronidazole **723-46-6**, Sulfamethoxazole 738-70-5, Trimethoprim 927-58-2, 4-Bromobutyryl chloride 2623-87-2, 4-Bromobutyric acid 3363-58-4, Nifurfoline 4008-48-4, Nitroxoline 21462-39-5, Clindamycin hydrochloride 25953-19-9, Cefazolin 59007-60-2, Amoxicillin hydrochloride 59277-89-3, Acyclovir 59695-59-9, Cephalexin hydrochloride 68077-27-0 81103-11-9, Clarithromycin 85721-33-1 93107-08-5, Ciprofloxacin hydrochloride 98079-52-8 352467-08-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(nitrate salts of antimicrobial agents)
IT 69-52-3P 41683-29-8P 93594-48-0P 352464-56-3P 352464-62-1P 352464-64-3P 352464-66-5P 352467-00-6P 352467-01-7P 352467-02-8P 352467-03-9P 352467-04-0P 352467-05-1P 352467-06-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(nitrate salts of antimicrobial agents)
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Edko Trading Representation; WO 9007325 A 1990 HCAPLUS
(2) Hydro Pharma Sverige Ab; WO 9320812 A 1993 HCAPLUS
(3) Nicox Sa; WO 0006531 A 2000 HCAPLUS
(4) Nicox Sa; WO 0112584 A 2001 HCAPLUS
IT **352464-52-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(nitrate salts of antimicrobial agents)
RN 352464-52-9 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)-, mononitrate (9CI) (CA INDEX NAME)

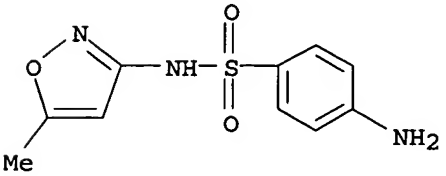
CM 1

CRN 7697-37-2
CMF H N O3



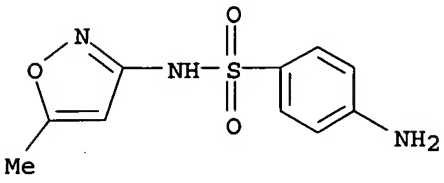
CM 2

CRN 723-46-6
CMF C10 H11 N3 O3 S



IT **723-46-6**, Sulfamethoxazole
RL: RCT (Reactant); RACT (Reactant or reagent)
(nitrate salts of antimicrobial agents)

RN 723-46-6 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



L106 ANSWER 10 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:760239 HCAPLUS
DN 132:194618
ED Entered STN: 02 Dec 1999
TI Design and synthesis of potentially antimalarial aminoacyl derivatives of sulfonamides and trimethoprim
AU Felli, Veni Maria Andres; Martinelli, Tatiane Favarato; Da Silveira, Maria Amelia Barata
CS Departamento de Farmacia, Faculdade de Ciencias Farmaceuticas, Universidade de Sao Paulo, Brazil
SO Revista Brasileira de Ciencias Farmaceuticas (**1999**), 35(1), 47-56
CODEN: RBCFFM; ISSN: 1516-9332
PB Universidade de Sao Paulo, Faculdade de Ciencias Farmaceuticas
DT Journal
LA Portuguese
CC 34-2 (Amino Acids, Peptides, and Proteins)
Section cross-reference(s): 10, 63
AB Amino acids were bound to trimethoprim, sulfamethoxazole and sulfathiazole with the goal that large amts. of antimalarial drug reach the blood cells. The derivs. were prepared by reaction of trimethoprim or sulfonamides with amino acid ester or protected amino acids. The derivs. were submitted to spectrometric, chromatog., m.p. and elemental anal.
ST amino acid deriv trimethoprim sulfamethoxazole sulfathiazole prepn antimalarial
IT **Antimalarials**
(design and synthesis of potentially antimalarial aminoacyl derivs. of sulfonamides and trimethoprim)
IT Amino acids, preparation
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(design and synthesis of potentially antimalarial aminoacyl derivs. of sulfonamides and trimethoprim)
IT Drug delivery systems
(prodrugs; design and synthesis of potentially antimalarial aminoacyl derivs. of sulfonamides and trimethoprim)
IT 72-14-0, Sulfathiazole 723-46-6, Sulfamethoxazole 738-70-5, Trimethoprim
RL: RCT (Reactant); RACT (Reactant or reagent)
(design and synthesis of potentially antimalarial aminoacyl derivs. of sulfonamides and trimethoprim)
IT 459-73-4P 2743-60-4P 4117-33-3P 4530-20-5P 13139-15-6P 13734-28-6P 13734-41-3P 17431-03-7P, Ethyl L-valinate
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(design and synthesis of potentially antimalarial aminoacyl derivs. of sulfonamides and trimethoprim)
IT **19700-81-3P** 108739-21-5P 108739-22-6P **260049-94-3P** 260049-95-4P 260049-96-5P 260060-92-2P 260060-93-3P 260060-94-4P

260060-95-5P 260060-96-6P 260060-98-8P
RL: SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(design and synthesis of potentially antimalarial aminoacyl derivs. of sulfonamides and trimethoprim)

RE.CNT 58 THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

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(16) Doherty, J; Trans R Soc Trop Med Hyg 1997, V91(1), P76 MEDLINE
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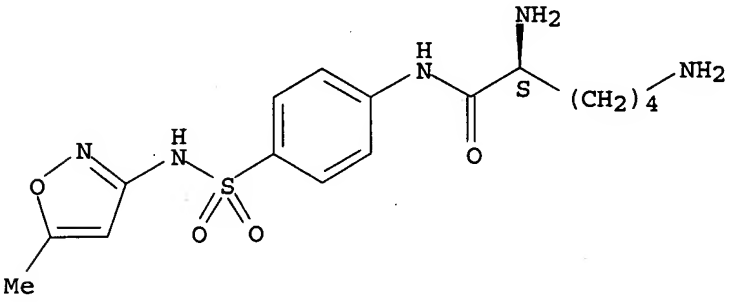
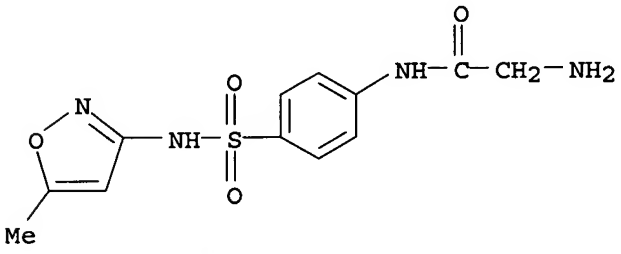
IT **19700-81-3P 260049-94-3P**
RL: SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(design and synthesis of potentially antimalarial aminoacyl derivs. of sulfonamides and trimethoprim)
RN 19700-81-3 HCAPLUS
CN Hexanamide, 2,6-diamino-N-[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]-, (2S)- (9CI) (CA INDEX NAME)

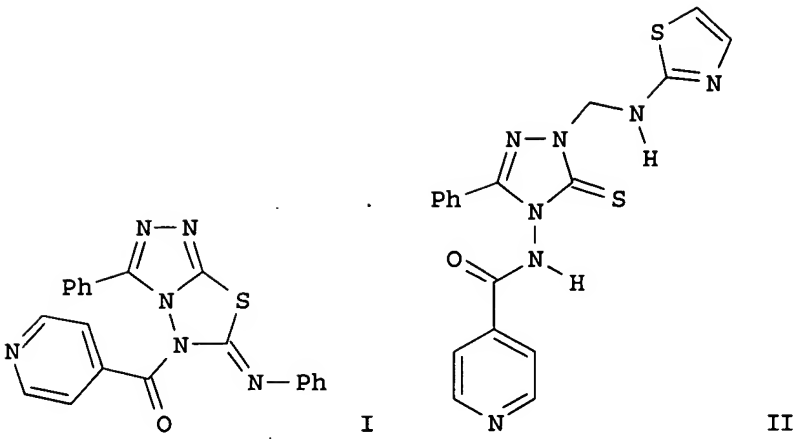
Absolute stereochemistry.



RN 260049-94-3 HCAPLUS
CN Acetamide, 2-amino-N-[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]- (9CI) (CA INDEX NAME)



L106 ANSWER 11 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:750271 HCAPLUS
DN 132:122562
ED Entered STN: 26 Nov 1999
TI Synthesis and biological evaluation of some substituted 1,2,4-triazoles
AU Udupi, R. H.; Kushnoor, Ashok; Bhat, A. R.
CS Department of Pharmaceutical Chemistry, V. L. College of Pharmacy, Raichur, 584 101, India
SO Journal of the Indian Chemical Society (**1999**), 76(9), 461-462
CODEN: JICSAH; ISSN: 0019-4522
PB Indian Chemical Society
DT Journal
LA English
CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): **1**, 10
GI



I II

AB 4-(4-Pyridoyl)-3-substituted-5-phenylazo-1,2,4-triazolo[3,4-b][1,3,4]thiadiazolidines, e.g. I, and 1,2,4-triazolo Mannich bases, e.g. II, have been synthesized and screened for biol. activities.

ST triazolothiadiazolidine aryl prepn biol activity; triazole aryl prepn biol activity

IT Anti-inflammatory agents
Antibacterial agents
Fungicides
Tuberculostatics
(preparation and biol. activity of aryl triazolothiadiazolidines and aryl triazoles)

IT 256342-83-3P 256342-85-5P 256342-86-6P 256342-87-7P 256342-89-9P
256342-92-4P 256342-93-5P **256342-94-6P** 256342-96-8P
256342-97-9P 256342-99-1P 256343-00-7P 256343-01-8P 256343-02-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and biol. activity of aryl triazolothiadiazolidines and aryl triazoles)

IT 54-85-3 65-49-6 94-09-7 95-64-7 96-50-4, 2-Thiazolamine
103-72-0, Phenyl isothiocyanate 619-17-0 **723-46-6** 1769-24-0
7250-19-3, 1H-Indol-3-amine 18472-06-5 24688-29-7 38539-87-6
38539-88-7 85106-57-6 130946-72-4 183244-21-5 183244-22-6
183244-23-7 183244-24-8 183244-26-0 256342-80-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and biol. activity of aryl triazolothiadiazolidines and aryl triazoles)

IT 96134-30-4P 183244-32-8P 183244-34-0P 183244-40-8P 183244-42-0P
183244-43-1P 183244-44-2P 183244-48-6P 183244-50-0P 256342-82-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and biol. activity of aryl triazolothiadiazolidines and aryl triazoles)

IT 256342-84-4P 256342-88-8P 256342-90-2P 256342-91-3P 256342-95-7P
256342-98-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and biol. activity of aryl triazolothiadiazolidines and aryl triazoles)

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Bano, Q; Indian J Chem 1988, V27, P714
(2) Bradbury, R; Heterocycles 1991, V33, P449
(3) Bradbury, R; J Med Chem 1991, V34, P151 HCAPLUS
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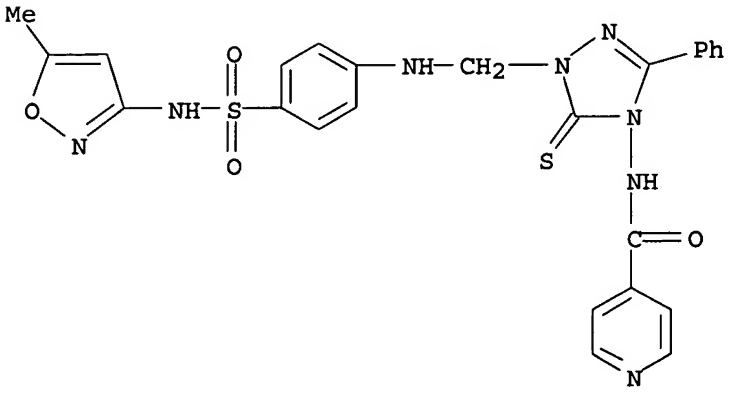
(10) Magdum, C; Indian Drugs 1998, V35, P665 HCAPLUS
(11) Prasad, H; Eur J Med Chem 1989, V24, P199
(12) Reid, J; J Heterocycl Chem 1976, V13, P925 HCAPLUS
(13) Rich, S; Phytopathology 1952, V42, P451
(14) Singh, H; J Pharm Pharmacol 1958, V20, P316
(15) Sudan, S; J Indian Chem Soc 1996, V73, P625 HCAPLUS
(16) Temple, C; Chemistry of Heterocyclic Compounds 1981

IT **256342-94-6P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and biol. activity of aryl triazolothiadiazolidines and aryl triazoles)

RN 256342-94-6 HCAPLUS

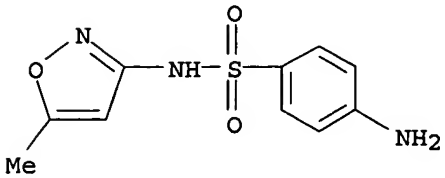
CN 4-Pyridinecarboxamide, N-[1,5-dihydro-1-[[[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]amino]methyl]-3-phenyl-5-thioxo-4H-1,2,4-triazol-4-yl]- (9CI) (CA INDEX NAME)



IT **723-46-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and biol. activity of aryl triazolothiadiazolidines and aryl triazoles)

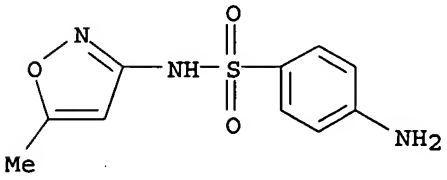
RN 723-46-6 HCAPLUS

CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



L106 ANSWER 12 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:137811 HCAPLUS
DN 130:213721
ED Entered STN: 04 Mar 1999
TI Charge-transfer reaction of tetrachlorobenzoquinone with sulfa drugs

AU Zhou, Xuguang; Feng, Li; Zhou, Wanbin; Zhao, Guizhi; **Yang, Jing**; Zhang, Na
CS Chem. Lab., Jinzhou Med. Coll., Jinzhou, 121001, Peop. Rep. China
SO Fenxi Huaxue (**1999**), 27(2), 244
CODEN: FHHHDT; ISSN: 0253-3820
PB Zhongguo Huaxuehui "Fenxi Huaxue" Bianji Weiyuanhui
DT Journal
LA Chinese
CC 64-3 (Pharmaceutical Analysis)
AB A method is described for determination of sulfadiazine and sulfamethoxazole in tablets. Tablets were weighed, powdered, dissolved in diluted HCl, and filtered. Filtrate was treated with tetrachlorobenzoquinone and borate buffer, incubated at 50°, measured for absorbances at 356 and 365 nm. Concns. of these 2 drugs were then accurately calculated
ST charge transfer reaction tetrachlorobenzoquinone sulfa drug
IT Pharmaceutical analysis
UV and visible spectroscopy
(charge-transfer reaction of tetrachlorobenzene with sulfa drugs)
IT Drugs
(sulfa; charge-transfer reaction of tetrachlorobenzene with sulfa drugs)
IT Drug delivery systems
(tablets; charge-transfer reaction of tetrachlorobenzene with sulfa drugs)
IT 68-35-9, Sulfadiazine **723-46-6**, Sulfamethoxazole
RL: ANT (Analyte); ANST (Analytical study)
(charge-transfer reaction of tetrachlorobenzene with sulfa drugs)
IT 118-75-2, Tetrachlorobenzoquinone, uses
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(charge-transfer reaction of tetrachlorobenzene with sulfa drugs)
IT **723-46-6**, Sulfamethoxazole
RL: ANT (Analyte); ANST (Analytical study)
(charge-transfer reaction of tetrachlorobenzene with sulfa drugs)
RN 723-46-6 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



L106 ANSWER 13 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:649557 HCAPLUS
DN 130:38351
ED Entered STN: 14 Oct 1998
TI A novel synthesis of some new sulfa-2,3(1H,4H)-quinaoxalinediones as potential antimicrobial agents
AU El-Helby, A. A.; Aziza, M. A.; El-Hakim, A. E.
CS Department of Pharm. Chemistry, Faculty of Pharmacy, Al-Azhar University, Cairo, Egypt
SO Al-Azhar Journal of Pharmaceutical Sciences (**1997**), 19, 88-93
CODEN: AAJPFT; ISSN: 1110-1644
PB Al-Azhar University, Faculty of Pharmacy
DT Journal
LA English
CC 28-17 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): **1**, 10

AB A series of sulfa-2,3(1H,4H)-quinoxalinediones was prepared Most of the synthesized compds. were tested in vitro for their antimicrobial activity.
ST sulfaquinoxalinedione prepn antimicrobial activity
IT Antibacterial agents
Fungicides
(preparation and **fungicidal** and bactericidal activities of sulfaquinoxalinediones)
IT 216774-65-1P 216774-77-5P 216774-90-2P 216775-02-9P 216775-12-1P
216775-17-6P 216775-22-3P 216775-43-8P 216775-53-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and **fungicidal** and bactericidal activities of sulfaquinoxalinediones)
IT 14949-01-0 15804-19-0 20934-51-4 81958-22-7 83323-08-4
97433-27-7 104246-27-7 104246-28-8 116488-93-8 **156324-47-9**
216774-59-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and **fungicidal** and bactericidal activities of sulfaquinoxalinediones)
IT 188248-20-6P 216768-74-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and **fungicidal** and bactericidal activities of sulfaquinoxalinediones)
IT 216774-71-9P 216774-84-4P 216774-97-9P **216775-07-4P**
216775-27-8P 216775-32-5P 216775-38-1P **216775-48-3P**
216775-59-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and **fungicidal** and bactericidal activities of sulfaquinoxalinediones)
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) El-Moghazy, S; Egyp J Pharm Sci 1992, V33(3-4), P527
(2) Gliman, H; J Am Chem Soc 1948, V70, P2619
(3) Gould, C; Edinb Med J 1952, V59, P178
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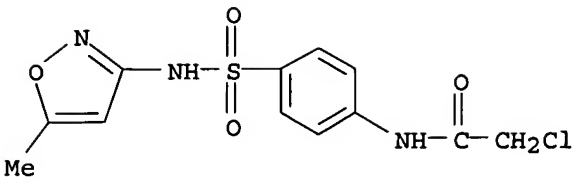
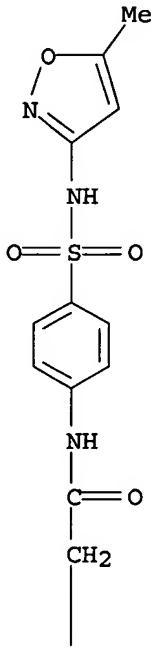
(5) Hinsberg and Pollak; Ber 1896, V29, P784
(6) King and Beer; J Chem Soc 1945, P792
(7) Landquist, J; 1952, V668, P412
(8) Marley, J; J Chem Soc 1952, P4002
(9) Padeiskaya, E; Farmakol Toksikol (Russ) 1967, V30(5), P617 HCAPLUS
(10) Radkevich, T; Farmakol Toksikol (Russ) 1968, V31(3), P299 HCAPLUS
(11) Sasse, K; Angew Chem 1960, V72, P973 HCAPLUS
(12) Schuyler, P; J Med Chem 1966, V9(5), P705
(13) Seeler, A; J Pharmaco 1944, V82, P357 HCAPLUS
(14) Weijland, J; US 2404199 1946 HCAPLUS
(15) Weijland, J; J Am Chem Soc 1949, V66, P1957
(16) Wieding, S; Acta Puth Microbiol Scand 1945, V22, P379
IT **156324-47-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and **fungicidal** and bactericidal activities of sulfaquinoxalinediones)
RN 156324-47-9 HCAPLUS
CN Acetamide, 2-chloro-N-[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]-(9CI) (CA INDEX NAME)

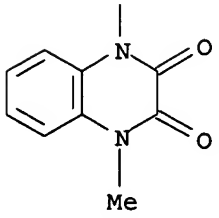


IT **216775-07-4P 216775-48-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and **fungicidal** and bactericidal activities of sulfaquinoxalinediones)
RN 216775-07-4 HCAPLUS
CN 1(2H)-Quinoxalineacetamide, 3,4-dihydro-4-methyl-N-[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]-2,3-dioxo- (9CI) (CA INDEX NAME)

PAGE 1-A

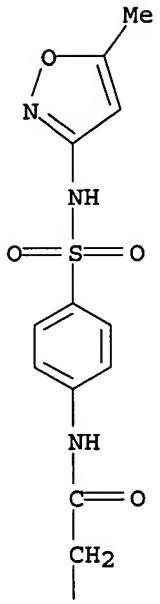


PAGE 2-A

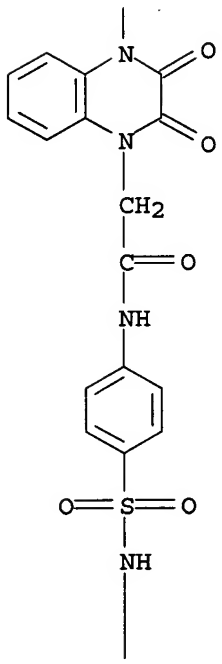


RN 216775-48-3 HCAPLUS
CN 1,4-Quinoxalinediacetamide, 2,3-dihydro-N,N'-bis[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]-2,3-dioxo- (9CI) (CA INDEX NAME)

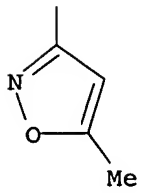
PAGE 1-A



PAGE 2-A



PAGE 3-A



L106 ANSWER 14 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1997:428713 HCAPLUS
DN 127:55933
ED Entered STN: 10 Jul 1997
TI Stable and safe ophthalmic solutions containing sulfa drugs
IN Okamoto, Koichi; Takada, Junko; Ootsuki, Tomohiro; Egami, Fumiyasu
PA Taisho Pharmaceutical Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM A61K009-08
ICS A61K031-635; A61K047-20; A61K047-28
CC 63-6 (**Pharmaceuticals**)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09151128	A2	19970610	JP 1996-252862	19960925 <--
PRAI JP 1995-247362		19950926 <--		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 09151128	ICM	A61K009-08
	ICS	A61K031-635; A61K047-20; A61K047-28

AB The ophthalmic solns. (pH 7.8-8.9) placed in containers containing polyethylene (I) and/or ethylene-vinyl acetate copolymer at volume contents ≤2 mL, contain sulfa drugs and buffering agents and/or taurine (II). Alternatively, the ophthalmic solns. (pH 7.6-8.9) contain sulfa drugs, glycyrrhizic acid salts, and optionally buffering agents and taurine. Sulfamethoxazole Na 4000, di-K glycyrrhizate 250, II 100, and borax 60 mg were dissolved in H2O to give 100 mL of an ophthalmic solution (pH 8.2), 1 mL of which was placed in a I container. The pH of the solution was not lowered by storage at 5° for 6 mo.
ST ophthalmic sulfa drug stability buffer taurine; polyethylene container ophthalmic sulfa drug stability; glycyrrhizate ophthalmic sulfa drug pH stability; ethylene vinyl acetate copolymer container ophthalmic
IT Sulfonamides
Sulfonamides
RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(amino; stable and safe ophthalmic solns. containing sulfa drugs and buffering agents, taurine, and/or glycyrrhizate salts placed in polyethylene and/or ethylene-vinyl acetate copolymer containers)
IT Antibacterial agents
Buffers
Containers
Fungicides
(stable and safe ophthalmic solns. containing sulfa drugs and buffering agents, taurine, and/or glycyrrhizate salts placed in polyethylene and/or ethylene-vinyl acetate copolymer containers)
IT Amines, biological studies

Amines, biological studies
RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(sulfonamides; stable and safe ophthalmic solns. containing sulfa drugs and buffering agents, taurine, and/or glycyrrhizate salts placed in polyethylene and/or ethylene-vinyl acetate copolymer containers)

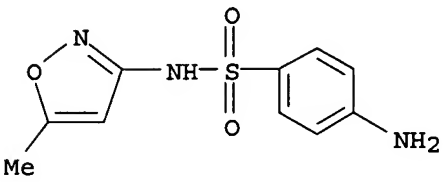
IT 107-35-7, Taurine 144-55-8, Sodium hydrogen carbonate, biological studies 1303-96-4, Borax 7558-79-4, Disodium hydrogen phosphate 10043-35-3, Boric acid, biological studies 68797-35-3, Dipotassium glycyrrhizate
RL: MOA (Modifier or additive use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(stable and safe ophthalmic solns. containing sulfa drugs and buffering agents, taurine, and/or glycyrrhizate salts placed in polyethylene and/or ethylene-vinyl acetate copolymer containers)

IT **4563-84-2**, Sulfamethoxazole sodium
RL: PRP (Properties); **THU (Therapeutic use)**; BIOL (Biological study); USES (Uses)
(stable and safe ophthalmic solns. containing sulfa drugs and buffering agents, taurine, and/or glycyrrhizate salts placed in polyethylene and/or ethylene-vinyl acetate copolymer containers)

IT 9002-88-4, Polyethylene 24937-78-8, Ethylene-vinyl acetate copolymer
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(stable and safe ophthalmic solns. containing sulfa drugs and buffering agents, taurine, and/or glycyrrhizate salts placed in polyethylene and/or ethylene-vinyl acetate copolymer containers)

IT **4563-84-2**, Sulfamethoxazole sodium
RL: PRP (Properties); **THU (Therapeutic use)**; BIOL (Biological study); USES (Uses)
(stable and safe ophthalmic solns. containing sulfa drugs and buffering agents, taurine, and/or glycyrrhizate salts placed in polyethylene and/or ethylene-vinyl acetate copolymer containers)

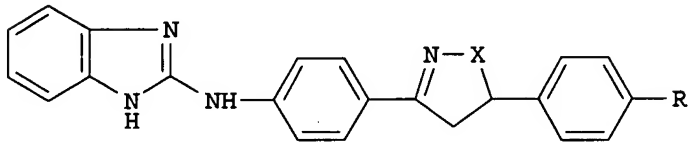
RN 4563-84-2 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)-, monosodium salt (9CI) (CA INDEX NAME)

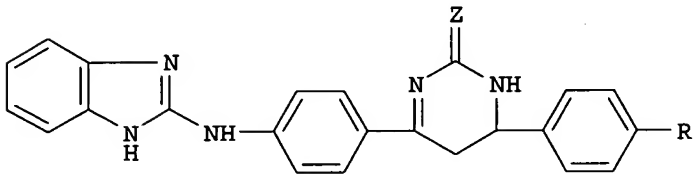


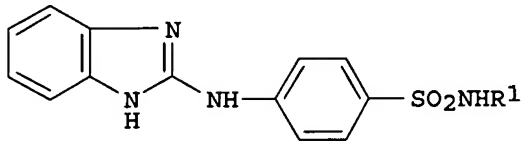
● Na

L106 ANSWER 15 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1997:211806 HCAPLUS
DN 126:251106
ED Entered STN: 02 Apr 1997
TI Synthesis of some novel benzimidazole derivatives as antimicrobial agents
AU Omar, M. T.; Fahmy, H. H.; Mohamed, H. S.
CS Medicinal Chemistry Department, National Research Centre, Cairo, Egypt
SO Egyptian Journal of Pharmaceutical Sciences (**1996**), 37(1-6), 609-620
CODEN: EJPSBZ; ISSN: 0301-5068
PB National Information and Documentation Centre
DT Journal

LA English
CC 28-9 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1
GI


I


II


III

AB Cyclocondensation of 2-(4-cinnamoylanilino)benzimidazoles with hydrazines, NH2OH·HCl, urea, and thiourea gave pyrazolyl, isoxazolyl, and pyrimidinyl derivs. of benzimidazole such as I (X = NH, NPh, R = H; X = O, R = OMe) and II (Z = O, S; R = H, OMe). Reaction of 2-chlorobenzimidazole with sulfanilamides gave 4-(benzimidazolylamino)benzenesulfonamides such as III (R1 = 2-thiazolyl, 2-pyrimidinyl, 4,5-dimethyl-3-isoxazolyl). The new compds. showed inhibitory effects against bacteria, yeast, and **fungi.**

ST cyclocondensation cinnamoylanilinobenzimidazole hydrazine hydroxylamine urea thiourea; benzimidazole cinnamoylanilino cyclocondensation hydrazine hydroxylamine urea; sulfanilamide substitution chlorobenzimidazole; benzimidazolyl derivs pyrazole isoxazole pyrimidine prepn; pyrazole benzimidazolyl derivs prepn antimicrobial activity; isoxazole benzimidazolyl derivs prepn antimicrobial activity; pyrimidinone benzimidazolyl derivs prepn antimicrobial activity; pyrimidinethione benzimidazolyl derivs prepn antimicrobial activity; bactericide benzimidazolyl derivs pyrazole isoxazole pyrimidine; **fungicide** benzimidazolyl derivs pyrazole isoxazole pyrimidine; benzimidazolamine sulfamoylphenyl derivs prepn antimicrobial activity

IT Antibacterial agents
Fungicides
(benzimidazolyl derivs. of pyrazoles, isoxazoles, and pyrimidines)

IT Cyclocondensation reaction
(of (cinnamoylanilino)benzimidazoles with hydrazines, hydroxylamine, urea. and thiourea)

IT 57-13-6, Urea, reactions 62-56-6, Thiourea, reactions 100-63-0, Phenylhydrazine 302-01-2, Hydrazine, reactions 5470-11-1, Hydroxylamine hydrochloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclocondensation with (cinnamoylanilino)benzimidazoles)

IT 188623-79-2P 188623-80-5P 188623-81-6P 188623-83-8P 188623-84-9P 188623-87-2P 188623-88-3P **188623-89-4P** 188623-90-7P **188623-91-8P** 188623-92-9P 188623-93-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antimicrobial activity of)

IT 188623-73-6P 188623-74-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclocondensation reactions of)

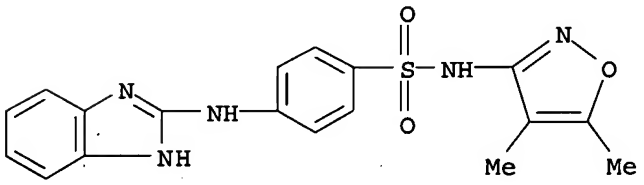
IT 188623-75-8P 188623-76-9P 188623-77-0P 188623-78-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

IT 4857-06-1, 2-Chlorobenzimidazole
RL: RCT (Reactant); RACT (Reactant or reagent)
(substitution reaction with arylamines)

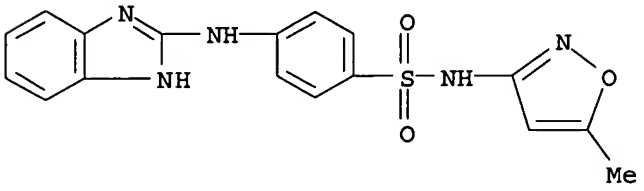
IT 57-67-0 57-68-1 68-35-9 72-14-0 127-79-7 **723-46-6** **23256-23-7** 188623-66-7 188623-68-9 188623-69-0 188623-70-3 188623-71-4 188623-72-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(substitution reaction with chlorobenzimidazole)

IT **188623-89-4P 188623-91-8P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antimicrobial activity of)

RN 188623-89-4 HCAPLUS
CN Benzenesulfonamide, 4-(1H-benzimidazol-2-ylamino)-N-(4,5-dimethyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)

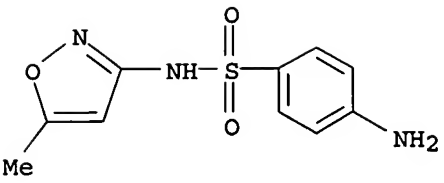


RN 188623-91-8 HCAPLUS
CN Benzenesulfonamide, 4-(1H-benzimidazol-2-ylamino)-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)

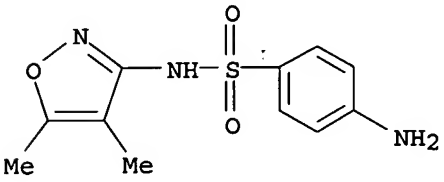


IT **723-46-6 23256-23-7**
RL: RCT (Reactant); RACT (Reactant or reagent)
(substitution reaction with chlorobenzimidazole)

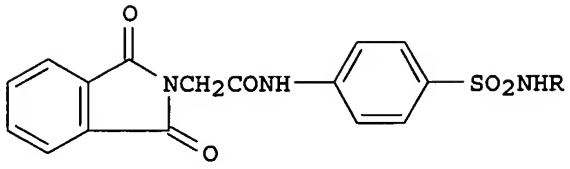
RN 723-46-6 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



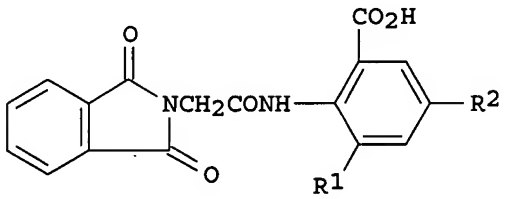
RN 23256-23-7 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(4,5-dimethyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



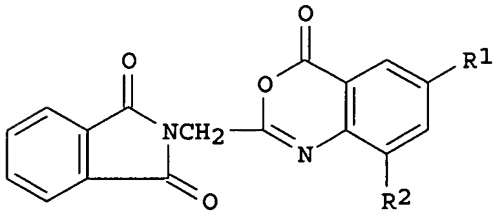
L106 ANSWER 16 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1997:194066 HCAPLUS
DN 126:225187
ED Entered STN: 24 Mar 1997
TI Synthesis and antimicrobial activity of 2-substituted 1H-isoindole-1,3(2H)-diones
AU El-Helby, Abdel-Ghany A.
CS Department of Pharm. Chemistry, Faculty of Pharmacy, Al-Azhar University, Cairo, Egypt
SO Al-Azhar Journal of Pharmaceutical Sciences (**1996**), 17, 81-88
CODEN: AAJPFT; ISSN: 1110-1644
PB Al-Azhar University, Faculty of Pharmacy
DT Journal
LA English
CC 27-11 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): **1**, 28
GI



I



II



III

AB The potassium salt of 1H-isoindole-1,3(2H)-dione reacted with N4-chloroacetylated sulfa drugs, N-chloroacetylated anthranilic acids, and 2-(chloromethyl)-4H-3,1-benzoxazin-4-ones in DMF to afford products such as I (R = H, COMe, 2-thiazolyl, etc.), II (R1 = R2 = H, Br; R1 = Br, R2 = H), and III (R1 = H, Cl, Br, I; R2 = H, Cl, Br). Reactions of 2-(chloroethyl)-1H-isoindole-1,3(2H)-dione with different sulfa drugs in dioxane-triethylamine were also carried out. The products were tested for bactericidal and **fungicidal** activity.

ST isoindoledione aryl derivs prepn antimicrobial activity; benzoxazinone dioxoisoindolylmethyl derivs prepn antimicrobial activity; sulfanilamide dioxoisoindolyl derivs prepn antimicrobial activity; anthranilic acid dioxoisoindolylacetyl prepn antimicrobial activity; bactericide isoindoledione aryl derivs; **fungicide** isoindoledione aryl derivs

IT Antibacterial agents
Fungicides
(isoindoledione aryl derivs.)

IT 56654-86-5P 63203-16-7P 97118-79-1P 134700-30-4P 134700-31-5P
145764-15-4P 188289-14-7P 188289-16-9P 188289-18-1P 188289-20-5P
188289-21-6P 188289-22-7P 188289-24-9P 188289-26-1P 188289-27-2P
188289-29-4P 188289-31-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antimicrobial activity of)

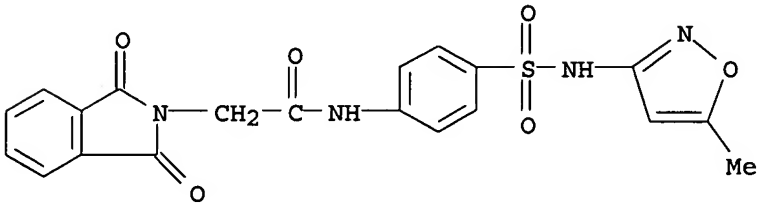
IT 63203-17-8P 134716-08-8P 188289-15-8P **188289-17-0P**
188289-19-2P 188289-23-8P 188289-25-0P **188289-28-3P**
188289-30-7P 188289-32-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

IT 63-74-1D, derivs.
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with (chloroethyl)isoindoledione)

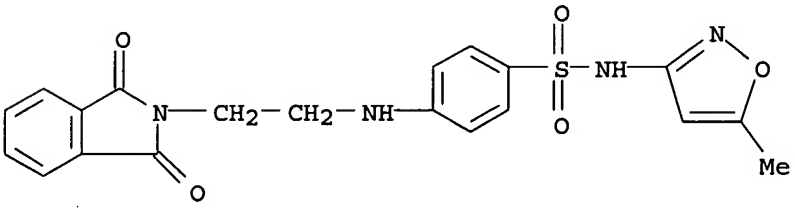
IT 1074-82-4, 1H-Isoindole-1,3(2H)-dione, potassium salt
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with chloroacetanilides and (chloromethyl)benzoxazinones)

IT 14422-49-2D, Benzoic acid, 2-[(chloroacetyl)amino]-, derivs.
14949-01-0D, Acetamide, N-[4-(aminosulfonyl)phenyl]-2-chloro-, derivs.

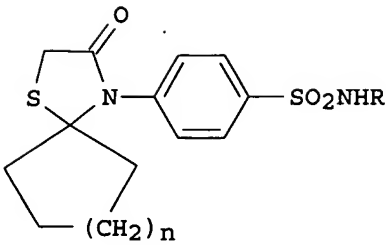
98592-35-9D, 4H-3,1-Benzoxazin-4-one, 2-(chloromethyl)-, derivs.
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with isoindoledione potassium salt)
IT 6270-06-0, 1H-Isoindole-1,3(2H)-dione, 2-(2-chloroethyl)-
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with sulfanilamide derivs.)
IT **188289-17-0P 188289-28-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 188289-17-0 HCAPLUS
CN 2H-Isoindole-2-acetamide, 1,3-dihydro-N-[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]-1,3-dioxo- (9CI) (CA INDEX NAME)



RN 188289-28-3 HCAPLUS
CN Benzenesulfonamide, 4-[[2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)ethyl]amino]-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



L106 ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1995:402935 HCAPLUS
DN 123:111898
ED Entered STN: 09 Mar 1995
TI Spot test reactions on chromatoplates: Preparation of spirosulfamoyl naphthenes
AU Atta, Ferial M.; Awad, I. M. A.; Hassan, K. M.
CS Faculty Science, Assiut University, Assiut, Egypt
SO Bulletin of the Faculty of Science, Assiut University, B: Chemistry (**1994**), 23(1), 1-12
CODEN: BFSAE6; ISSN: 1010-2671
DT Journal
LA English
CC 28-5 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): **1**, 10
GI



I

AB Some new spirosulfamoyl naphthenes have been prepared and their biol. activity examined Thus, condensation of 1-oxa-4-thiaspiro[4,4]nonan-2-one, -[4,5]decan-2-one, and 5-methyl-1-oxa-4-thiaspiro[4,5]decan-2-one with substituted sulfonamides gave the title systems I (R = H, Ac, 2-pyridyl, etc.; n = 1, 2). All the prepared compds. have been screened in vitro for antibacterial and **antifungal** activities.

ST spirosulfamoyl naphthene prepn bactericide **fungicide**; sulfonamide spirocyclic prepn bactericide **fungicide**

IT Bactericides, Disinfectants, and Antiseptics
Fungicides and Fungistats
(preparation of spirosulfamoyl naphthenes as bactericides or **fungicides**)

IT 155891-57-9P 155891-58-0P 155891-59-1P 155891-60-4P 155891-61-5P
155891-62-6P 155891-63-7P **155891-64-8P** 155891-65-9P
155891-66-0P 155891-67-1P 155891-68-2P 155891-69-3P 155891-70-6P
155891-71-7P 155891-72-8P 155891-73-9P **155891-74-0P**
155891-75-1P 155891-76-2P 155891-77-3P 155891-78-4P 155891-79-5P
155891-80-8P 155891-81-9P 155891-82-0P 155891-83-1P 155891-84-2P
155891-85-3P 155891-86-4P 155891-87-5P 155916-10-2P
155916-11-3P 165805-72-1P 165805-73-2P 165805-74-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of spirosulfamoyl naphthenes as bactericides or **fungicides**)

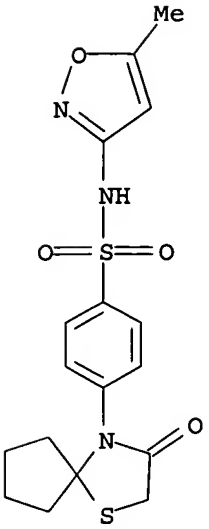
IT 57-67-0 57-68-1 63-74-1, p-Aminobenzenesulfonamide 68-11-1, Mercaptoacetic acid, reactions 68-35-9 72-14-0 80-35-3 108-94-1, Cyclohexanone, reactions 120-92-3, Cyclopentanone 127-79-7 144-80-9 144-83-2 583-60-8, 2-Methylcyclohexanone 651-06-9 **723-46-6** 2304-07-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of spirosulfamoyl naphthenes as bactericides or **fungicides**)

IT 1564-39-2P, 1-Oxa-4-thiaspiro[4.5]decan-2-one 1564-41-6P, 1-Oxa-4-thiaspiro[4,4]nonan-2-one 29942-22-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of spirosulfamoyl naphthenes as bactericides or **fungicides**)

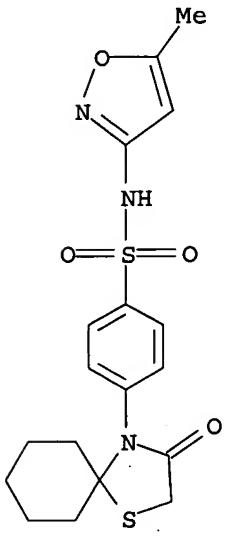
IT **155891-64-8P 155891-74-0P 155891-85-3P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of spirosulfamoyl naphthenes as bactericides or **fungicides**)

RN 155891-64-8 HCAPLUS

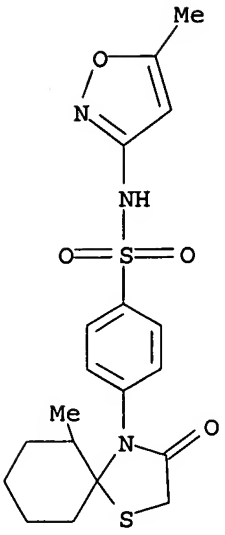
CN Benzenesulfonamide, N-(5-methyl-3-isoxazolyl)-4-(3-oxo-1-thia-4-azaspiro[4.4]non-4-yl)- (9CI) (CA INDEX NAME)



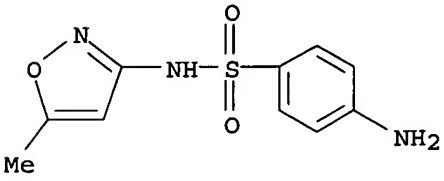
RN 155891-74-0 HCAPLUS
CN Benzenesulfonamide, N-(5-methyl-3-isoxazolyl)-4-(3-oxo-1-thia-4-azaspiro[4.5]dec-4-yl)- (9CI) (CA INDEX NAME)



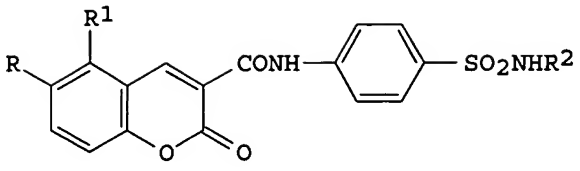
RN 155891-85-3 HCAPLUS
CN Benzenesulfonamide, N-(5-methyl-3-isoxazolyl)-4-(6-methyl-3-oxo-1-thia-4-azaspiro[4.5]dec-4-yl)- (9CI) (CA INDEX NAME)



IT **723-46-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of spirosulfamoyl naphthenes as bactericides or **fungicides**)
RN 723-46-6 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



L106 ANSWER 18 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1992:255441 HCAPLUS
DN 116:255441
ED Entered STN: 27 Jun 1992
TI Synthesis of some coumarin-3-(4-aminosulfonyl)carbanilide derivatives. Metabolic behavior and antimicrobial activity
AU Moustafa, M. A. A.
CS Fac. Pharm., Univ. Mansoura, Mansoura, 35516, Egypt
SO Scientia Pharmaceutica (**1991**), 59(3), 213-20
CODEN: SCPHA4; ISSN: 0036-8709
DT Journal
LA English
CC 27-14 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): **1**
GI



I

AB Title compds. I (R = H, Br, NO2, R1 = H; RR1 = CH:CHCH:CH; R2 = H, Ac, 2-pyrimidyl, 2-thiazolyl, 5-methyl-3-isoxazolyl) were prepared in 55-95% yields from EtO2CCH2CONHC6H4SO2NHR2-4 (II) by cyclocondensation with 5,6-RR1C6H3CHO. II were prepared by treating CH2(CO2Et)2 with H2NC6H4SO2NHR2-4. IR and NMR spectroscopic data for all 25 compds. are given. A study of the metabolism of I (R = R1 = H, R2 = 2-pyrimidyl; RR1 = CH:CHCH:CH, R2 = 2-pyrimidyl) in rats following i.p. administration, revealed in vivo hydrolysis and acetylation to generate the acetylated sulfanilamide. I had bactericidl, but not **fungicidal** activity in a standardized disk test.

ST coumarin sulfanilamide prepn bactericide

IT **Fungicides and Fungistats**
(aminosulfonylcoumarincarbanilides, inactive)

IT Bactericides, Disinfectants, and Antiseptics
(medical, aminosulfonylcoumarincarbanilides)

IT 111456-11-2P 141102-02-5P 141123-74-2P 141502-02-5P 141502-03-6P 141502-04-7P 141502-05-8P 141502-06-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antimicrobial activity of)

IT 10265-44-8P 10265-53-9P 104427-40-9P **104427-43-2P** 141101-90-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of, with aromatic aldehydes)

IT 141102-01-4P 141502-01-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and in vivo metabolism of)

IT 141101-99-7P **141102-00-3P** 141501-93-1P **141501-94-2P** 141501-95-3P 141501-96-4P **141501-97-5P** 141501-98-6P 141501-99-7P **141502-00-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

IT 63-74-1 68-35-9 72-14-0 144-80-9 **723-46-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with malonate)

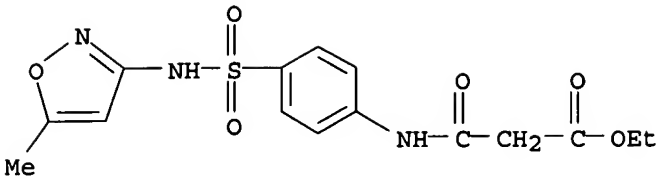
IT 90-02-8, reactions 97-51-8 708-06-5 1761-61-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with malonylsulfanilamides)

IT 105-53-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with sulfanilamides)

IT **104427-43-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of, with aromatic aldehydes)

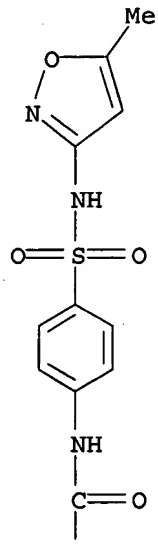
RN 104427-43-2 HCAPLUS

CN Propanoic acid, 3-[[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]amino]-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)

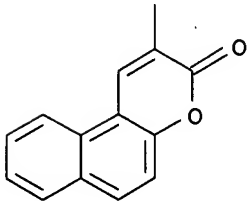


IT **141102-00-3P 141501-94-2P 141501-97-5P 141502-00-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 141102-00-3 HCAPLUS
CN 3H-Naphtho[2,1-b]pyran-2-carboxamide, N-[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]-3-oxo- (9CI) (CA INDEX NAME)

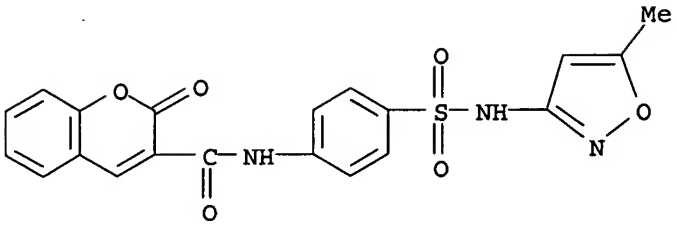
PAGE 1-A



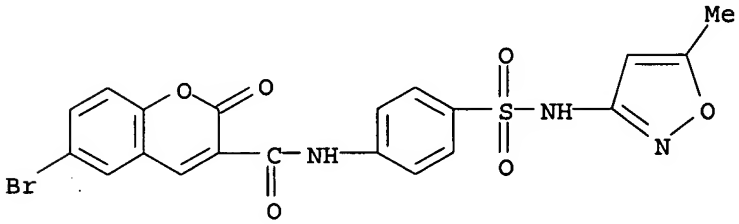
PAGE 2-A



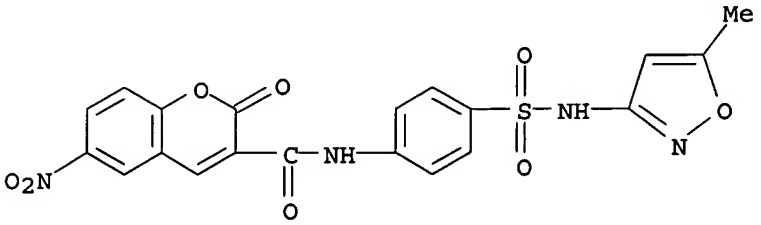
RN 141501-94-2 HCAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]-2-oxo- (9CI) (CA INDEX NAME)



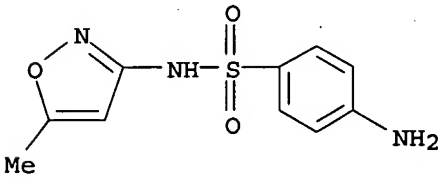
RN 141501-97-5 HCAPLUS
CN 2H-1-Benzopyran-3-carboxamide, 6-bromo-N-[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]-2-oxo- (9CI) (CA INDEX NAME)



RN 141502-00-3 HCAPLUS
CN 2H-1-Benzopyran-3-carboxamide, N-[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]-6-nitro-2-oxo- (9CI) (CA INDEX NAME)



IT **723-46-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with malonate)
RN 723-46-6 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



L106 ANSWER 19 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1990:235344 HCAPLUS
DN 112:235344
ED Entered STN: 23 Jun 1990
TI Preparation of N-heterocyclyl-N-(5,5-dichloro-4-pentenyl)sulfonamide

derivatives as agricultural **fungicides**
IN Shibata, Taku; Takahashi, Toshio; Honami, Reijiro; Mori, Kogoro; Miura, Ichiro; Kojima, Yoshiyuki
PA Kumiai Chemical Industry Co., Ltd., Japan; Ihara Chemical Industry Co., Ltd.
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C07D209-48
ICS C07D275-02
CC 28-17 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): **5**
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 02019357	A2	19900123	JP 1988-169264	19880707 <--
PRAI JP 1988-169264		19880707 <--		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 02019357	ICM	C07D209-48
	ICS	C07D275-02

OS MARPAT 112:235344
AB R1SO2NR(CH2)3CH:CCl2 [I; R = (un)substituted pyrazolyl, isoxazolyl, isothiazolyl, imidazolyl, pyridyl, pyrimidinyl, quinolyl, quinoxalinyl, pyrazinyl, or phthalimidoyl; R1 = (halo)alkyl, Ph, NR2R3; R2, R3 = H, alkyl, or NR2R3 forming a ring], which are particularly effective against Pyricularia oryzae with excellent residual effect and stability against rain, are prepared Thus, treatment of N-(1-ethylpyrazol-5-yl)methanesulfonamide with NaH in DMF followed by reaction with Cl(CH2)3CH:CCl2 at 80° for 4 h gave I (R = 1-ethylpyrazol-5-yl, R1 = Me). A total of 113 I were prepared and at 50 ppm controlled P. oryzae in rice seedlings by 82.4-100.0. I were also effective against Rhizoctonia solani, Alternaria brassicicola, Pseudoperonospora cubensis, and Sphaerotheca fuliginea.
ST heterocyclylsulfonamide dichloropentenyl prepn agrochem **fungicide** ; sulfonamide heterocyclyl prepn agrochem **fungicide**; chloropentenyl heterocyclylsulfonamide agrochem **fungicide**
IT Alternaria brassicicola
Pseudoperonospora cabensis
Rhizoctonia solani
Sphaerotheca fuliginea
(control by N-heterocyclyl dichloropentenylsulfonamide derivs.)
IT Pyricularia oryzae
(preparation and **fungicidal** action of N-heterocyclylsulfonamide derivs. in rice seedlings)
IT **Fungicides and Fungistats**
(**agrochem.**, (dichloropentenyl)heterocyclylsulfonamides)
IT 2677-33-0, 1,1,5-Trichloro-1-pentene
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkylation by, of heterocycylsulfonamide)
IT 127326-20-9 127326-21-0 127326-22-1 127326-23-2 127326-24-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkylation of, by dichloropentyl chloride)
IT 127326-25-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation of, with dichloropyrimidine)
IT 3934-20-1, 2,4-Dichloropyrimidine
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation of, with sulfonamide derivative)
IT 127325-08-0P 127325-09-1P 127325-10-4P 127325-11-5P 127325-12-6P
127325-13-7P 127325-14-8P 127325-15-9P 127325-16-0P 127325-17-1P

127325-18-2P 127325-19-3P 127325-20-6P 127325-21-7P 127325-22-8P
127325-23-9P 127325-24-0P 127325-25-1P 127325-26-2P 127325-27-3P
127325-28-4P 127325-29-5P 127325-30-8P 127325-31-9P 127325-32-0P
127325-33-1P 127325-34-2P 127325-35-3P 127325-36-4P 127325-37-5P
127325-38-6P 127325-39-7P 127325-40-0P 127325-41-1P 127325-42-2P
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127325-53-5P 127325-54-6P 127325-55-7P 127325-56-8P 127325-57-9P
127325-58-0P 127325-59-1P 127325-60-4P 127325-61-5P 127325-62-6P
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127325-68-2P 127325-69-3P 127325-70-6P 127325-71-7P 127325-72-8P
127325-73-9P 127325-74-0P 127325-75-1P 127325-76-2P 127325-77-3P
127325-78-4P 127325-79-5P 127325-80-8P **127325-81-9P**
127325-82-0P 127325-83-1P 127325-84-2P 127325-85-3P 127325-86-4P
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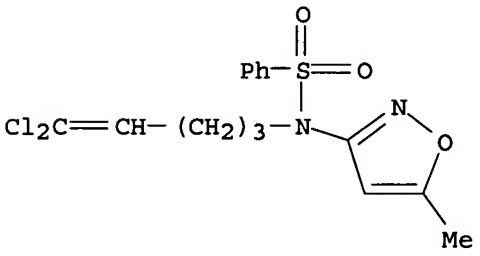
127326-02-7P 127326-03-8P 127326-04-9P 127326-05-0P 127326-06-1P
127326-07-2P 127326-08-3P 127326-09-4P 127326-10-7P 127326-11-8P
127326-12-9P 127326-13-0P 127326-14-1P 127326-15-2P 127326-16-3P
127326-17-4P 127326-18-5P 127326-19-6P 127338-05-0P
RL: **AGR (Agricultural use)**; BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as agrochem. **fungicide**)

IT **127325-81-9P**
RL: **AGR (Agricultural use)**; BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as agrochem. **fungicide**)

RN 127325-81-9 HCAPLUS
CN Benzenesulfonamide, N-(5,5-dichloro-4-pentenyl)-N-(5-methyl-3-isoxazolyl)-(9CI) (CA INDEX NAME)



L106 ANSWER 20 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1989:457717 HCAPLUS
DN 111:57717
ED Entered STN: 20 Aug 1989
TI Preparation of N-isoxazolylbenzenesulfonamides as **fungicides** for controlling pyricularia oryzae
IN Hatsuta, Takayuki; Takase, Akira; Maeda, Takashi
PA Shionogi and Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 18 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM A01N047-24
ICS A01N043-80; A01N047-34; C07C143-74; C07C143-78; C07C143-83;

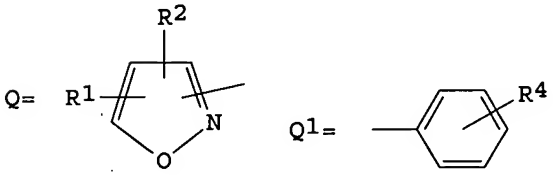
C07C143-833; C07D261-14; C07D261-16; C07D261-18
CC 28-6 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 5
FAN.CNT 1

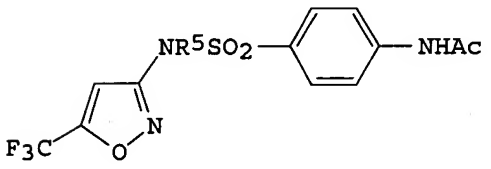
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 63238006	A2	19881004	JP 1987-73300	19870326 <--
PRAI JP 1987-73300		19870326 <--		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 63238006	ICM	A01N047-24
	ICS	A01N043-80; A01N047-34; C07C143-74; C07C143-78; C07C143-83; C07C143-833; C07D261-14; C07D261-16; C07D261-18

OS MARPAT 111:57717
GI





II

AB **Fungicides** containing sulfonamides XNYSO2Z [I; X = isoxazolyl group Q, R3CO; R1 = H, alkyl, HOCH2, CF3, cycloalkyl, haloalkyl, Ph, OR5, CO2R6; R2 = H, halo, alkyl, CO2H, OR5; R3 = alkyl, alkoxy, NH2, alkoxycarbonylethoxy, CH2:CHCH2O, HC.tplbond.C(CH2)nO, X1CH2CH2O, CF3CH2O; n = 1, 2; R5, R6 = H, alkyl; X1 = halo, alkoxy; Y = H, salt forming metal, alkyl; Z = phenyl group Q1, alkyl; R4 = H, alkyl, alkoxy, halo, CF3, (un)substituted NH2] as active ingredients against Pyrreularia oryzae are described. A solution of 3-amino-5-(trifluoromethyl)isoxazole and p-(AcNH)C6H4SO2Cl in pyridine was left to stand at room temperature for 1 day to give 60.3% sulfonamide (II; R5 = H). In water surface application, this at 10 ppm controlled 95-99% P. oryzae in rice seedlings, while sinomin showed the equivalent activity at 10 ppm and 85-94% control at 2 ppm.

ST isoxazolylbenzenesulfonamide prepn **fungicide** pyricularia oryzae; benzenesulfonamide isoxazolyl prepn **fungicide**; sulfonamide benzene isoxazolyl prepn **fungicide**

IT Piricularia oryzae
(**fungicides** for, isoxazolylbenzenesulfonamides and analogs as)

IT **Fungicides and Fungistats**
(**agrochem.**, against Pyricularia oryzae, isoxazolylbenzenesulfonamides and analogs)

IT **121680-38-4P** **121680-39-5P** 121680-40-8P 121680-41-9P
121680-42-0P 121680-43-1P 121680-44-2P 121680-45-3P
121680-46-4P 121680-47-5P 121680-48-6P 121680-49-7P
121680-50-0P **121680-51-1P** 121680-52-2P 121680-53-3P
121680-54-4P 121680-55-5P 121680-56-6P 121680-57-7P 121680-58-8P
121680-59-9P 121680-60-2P 121680-61-3P 121680-62-4P 121680-63-5P

121680-64-6P 121680-65-7P 121680-66-8P 121680-67-9P 121680-68-0P
121680-69-1P 121680-70-4P
RL: **AGR (Agricultural use)**; BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as agrochem. **fungicide**)

IT 4083-64-1, p-Methylbenzenesulfonyl isocyanate
RL: RCT (Reactant); RACT (Reactant or reagent)
(sulfamoylation by, of Me lactate)

IT 547-64-8, Methyl lactate
RL: RCT (Reactant); RACT (Reactant or reagent)
(sulfamoylation of, by toluenesulfonyl isocyanate)

IT 121-60-8, p-Acetamidobenzenesulfonyl chloride 124-63-0, Methanesulfonyl chloride 13360-57-1, Dimethylsulfamoyl chloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(sulfonylation by, of aminoisoxazole derivative)

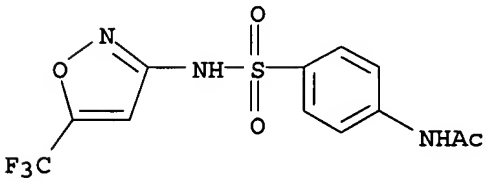
IT 110234-43-0, 3-Amino-5-trifluoromethylisoxazole
RL: RCT (Reactant); RACT (Reactant or reagent)
(sulfonylation of, by benzenesulfonyl chloride derivative)

IT 14678-05-8, 5-Aminoisoxazole
RL: RCT (Reactant); RACT (Reactant or reagent)
(sulfonylation of, by dimethylsulfamoyl chloride)

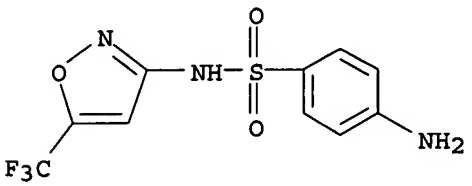
IT 55809-35-3, 5-tert-Butyl-3-(methylamino)isoxazole 55809-36-4, 5-tert-Butyl-3-aminoisoxazole
RL: RCT (Reactant); RACT (Reactant or reagent)
(sulfonylation of, by methanesulfonyl chloride)

IT **121680-38-4P 121680-39-5P 121680-46-4P 121680-51-1P**
RL: **AGR (Agricultural use)**; BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as agrochem. **fungicide**)

RN 121680-38-4 HCAPLUS
CN Acetamide, N-[4-[[[5-(trifluoromethyl)-3-isoxazolyl]amino]sulfonyl]phenyl]- (9CI) (CA INDEX NAME)

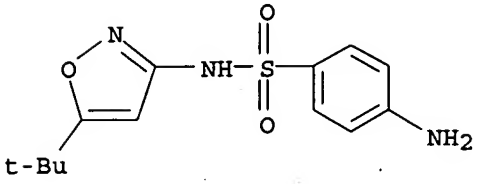


RN 121680-39-5 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-[5-(trifluoromethyl)-3-isoxazolyl]- (9CI) (CA INDEX NAME)



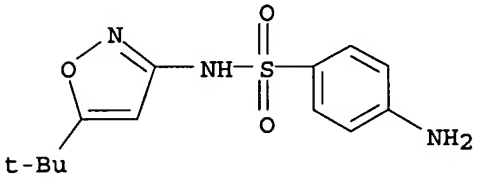
RN 121680-46-4 HCAPLUS

CN Benzenesulfonamide, 4-amino-N-[5-(1,1-dimethylethyl)-3-isoxazolyl]-, monosodium salt (9CI) (CA INDEX NAME)

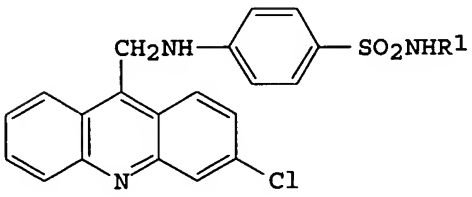


● Na

RN 121680-51-1 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-[5-(1,1-dimethylethyl)-3-isoxazolyl]- (9CI) (CA INDEX NAME)



L106 ANSWER 21 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1989:407202 HCAPLUS
DN 111:7202
ED Entered STN: 08 Jul 1989
TI Synthesis, antitumor and antimicrobial activities of some new acridine derivatives
AU Safwat, H. M.; Ragab, Fatma A.; Eid, Nahed M.; Abd el Gawad, M.
CS Pharm. Chem. Dep., Fac. Pharm., Cairo, Egypt
SO Egyptian Journal of Pharmaceutical Sciences (**1988**), 29(1-4), 151-60
CODEN: EJPSBZ; ISSN: 0301-5068
DT Journal
LA English
CC 27-18 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): **1**, 10
OS CASREACT 111:7202
GI



I

AB [(Sulfamoylanilino)methyl]acridines I (R1 = guanyl, acyl, H, heteroaryl) were prepared, and they exhibited antitumor, bactericidal, and **fungicidal** activity. Sulfanilamides were alkylated by a

(bromomethyl)acridine derivative to give I.

ST sulfamoylanilinomethylacridine prepn antitumor; bactericide
sulfamoylanilinomethylacridine prepn; **fungicide**
sulfamoylanilinomethylacridine prepn; acridine sulfamoylanilinomethyl prepn antitumor

IT Bactericides, Disinfectants, and Antiseptics
Neoplasm inhibitors
([(sulfamoylanilino)methyl]acridines)

IT **Fungicides and Fungistats**
(medical, [(sulfamoylanilino)methyl]acridines)

IT 57-67-0, Sulfaguanidine 57-68-1 63-74-1, Sulfanilamide 68-35-9 72-14-0, Sulfathiazole 127-69-5, Sulfisoxazole 127-79-7 144-80-9, Sulfacetamide 144-83-2, Sulfapyridine 526-08-9 547-44-4, Sulfacarbamide **723-46-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkylation of, by (bromomethyl)acridine derivative)

IT 35547-70-7, 3,9-Dichloroacridine
RL: RCT (Reactant); RACT (Reactant or reagent)
(arylation by, of malonate ester, and hydrolysis-decarboxylation of product from)

IT 996-82-7, Diethyl sodiomalonate
RL: RCT (Reactant); RACT (Reactant or reagent)
(arylation of, by chloroacridine derivative, hydrolysis-decarboxylation of product from)

IT 121061-21-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antitumor activity of)

IT 121061-25-4P 121061-26-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and bactericidal and **fungicidal** activity of)

IT 35422-72-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and bromination of)

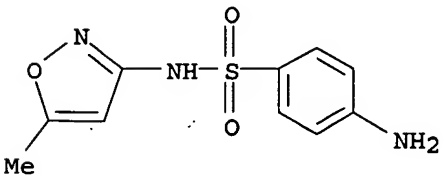
IT 121061-14-1P 121061-15-2P 121061-16-3P 121061-17-4P 121061-18-5P 121061-19-6P 121061-20-9P 121061-22-1P **121061-23-2P** 121061-24-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and pharmacol. activity of)

IT 121061-13-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, for alkylation of sulfanilamides)

IT **723-46-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkylation of, by (bromomethyl)acridine derivative)

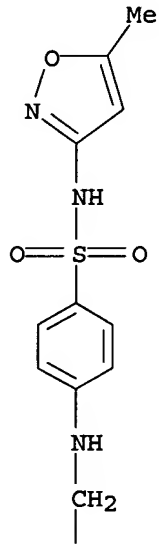
RN 723-46-6 HCAPLUS

CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)

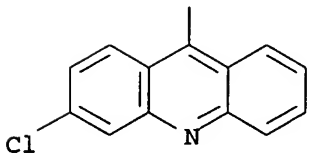


IT **121061-23-2P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and pharmacol. activity of)
RN 121061-23-2 HCAPLUS
CN Benzenesulfonamide, 4-[[(3-chloro-9-acridinyl)methyl]amino]-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

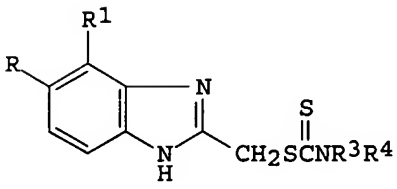


PAGE 2-A

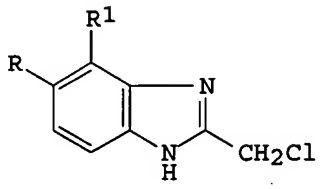


L106 ANSWER 22 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1987:119766 HCAPLUS
DN 106:119766
ED Entered STN: 17 Apr 1987
TI Synthesis and biological activities of some new S-(benzimidazol-2-ylmethyl) N-substituted dithiocarbamates and N1-substituted N4-(benzimidazol-2-ylmethyl)sulfanilamides
AU Kumar, B. Vijaya; Reddy, V. Malla
CS Univ. Coll. Pharm. Sci., Kakatiya Univ., Warangal, 506 009, India
SO Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (**1985**), 24B(12), 1298-301
CODEN: IJSBDB; ISSN: 0376-4699

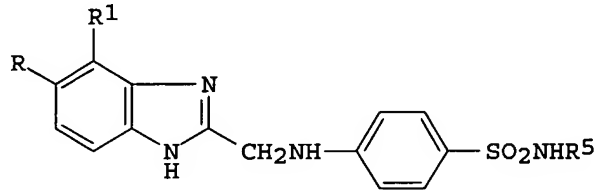
DT Journal
LA English
CC 28-9 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): **1**
OS CASREACT 106:119766
GI



I



II



III

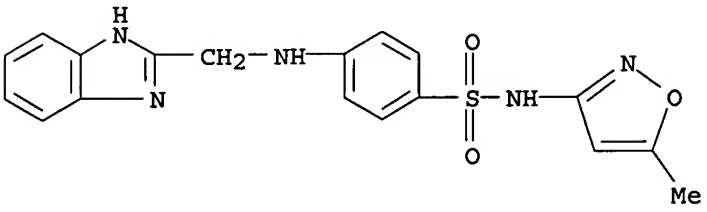
AB S-(Benzimidazol-2-ylmethyl) dithiocarbamates I [R, R1 = H, NO2; R3R4 = (HOCH2CH2)2N, piperidino, morpholino, 4-phenylpiperazino, dicyclohexylamino] were prepared by the condensation of R3R4NCS2- NH4+ with 2-chloromethylbenzimidazoles II. Similar condensation of II with sulfanilamides affords benzimidazole-2-yl sulfanilamides III (R5 = H, Ac, 1-phenyl-5-pyrazolyl, 4,6-dimethyl-2-pyrimidinyl, 2,6-dimethoxy-4-pyrimidinyl, 2,6-dimethyl-4-pyrimidinyl, 5-methyl-1,3,4-thiadiazol-2-yl, 5-methyl-3-isoxazolyl). Both I and III have been screened for their bactericidal and **fungicidal** activities.
ST benzimidazolylmethyl dithiocarbamate; benzimidazolylmethylsulfanilamide; bactericide benzimidazolylmethyl dithiocarbamate; **fungicide** benzimidazolylmethyl dithiocarbamate; sulfonilamide benzimidazolyl prepn bactericide
IT Bactericides, Disinfectants, and Antiseptics
Fungicides and Fungistats
(benzimidazolylmethyl dithiocarbamates and benzimidazolylmethylsulfanilamides)
IT 85112-44-3P 93758-90-8P 107089-97-4P 107089-98-5P 107089-99-6P
107090-00-6P 107090-01-7P 107090-02-8P 107090-03-9P 107090-04-0P
107090-05-1P 107090-06-2P 107090-07-3P 107090-08-4P 107090-09-5P
107090-10-8P 107090-11-9P 107090-12-0P 107090-13-1P 107090-14-2P
107090-15-3P **107090-16-4P** 107090-17-5P 107090-18-6P
107090-19-7P 107090-20-0P 107090-21-1P 107090-22-2P
107090-23-3P 107090-24-4P 107090-25-5P 107090-26-6P
107090-27-7P 107090-28-8P 107090-29-9P 107090-30-2P
107090-31-3P 107295-99-8P 107296-00-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and bactericidal and **fungicidal** activity of)
IT 57-68-1 63-74-1 122-11-2 144-80-9 144-82-1 515-64-0 526-08-9
723-46-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chloromethylbenzimidazole)
IT 49791-54-0 49791-55-1 75074-70-3 100805-67-2 100805-68-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chloromethylbenzimidazoles)

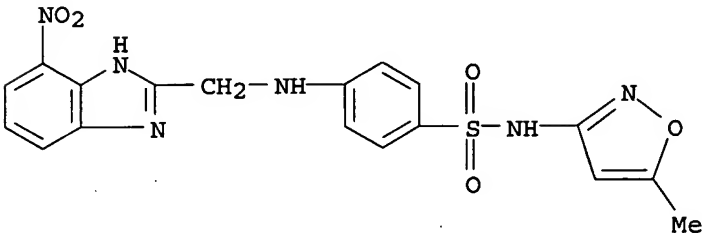
IT 4857-04-9 14625-39-9 99876-68-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with dithiocarbamic acids and sulfanilamides)

IT **107090-16-4P 107090-23-3P 107090-31-3P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and bactericidal and **fungicidal** activity of)

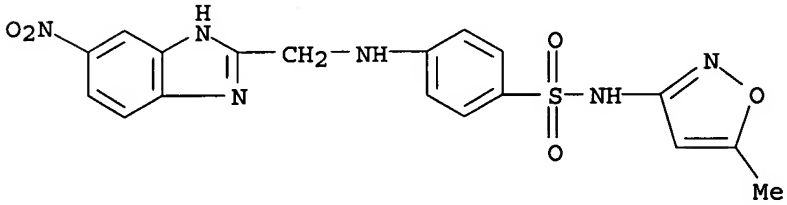
RN 107090-16-4 HCAPLUS
CN Benzenesulfonamide, 4-[(1H-benzimidazol-2-ylmethyl)amino]-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



RN 107090-23-3 HCAPLUS
CN Benzenesulfonamide, N-(5-methyl-3-isoxazolyl)-4-[[(4-nitro-1H-benzimidazol-2-yl)methyl]amino]- (9CI) (CA INDEX NAME)

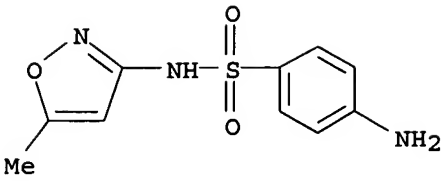


RN 107090-31-3 HCAPLUS
CN Benzenesulfonamide, N-(5-methyl-3-isoxazolyl)-4-[[(5-nitro-1H-benzimidazol-2-yl)methyl]amino]- (9CI) (CA INDEX NAME)

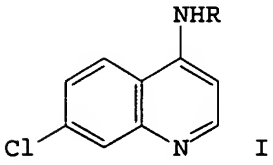


IT **723-46-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chloromethylbenzimidazole)

RN 723-46-6 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



L106 ANSWER 23 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1986:626454 HCAPLUS
DN 105:226454
ED Entered STN: 26 Dec 1986
TI Synthesis and antiparasitic activity of 4-(aryl/heteroarylamino)-7-chloroquinolines
AU Chauhan, P. M. S.; Pratap, Ram; Sharma, Satyavan
CS Med. Chem. Div., Cent. Drug Res. Inst., Lucknow, 226 001, India
SO Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (**1985**), 24B(11), 1154-7
CODEN: IJSBDB; ISSN: 0376-4699
DT Journal
LA English
CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): **1**, 10
OS CASREACT 105:226454
GI



AB 7-Chloroquinolines I [R = (un)substituted aminothiazolylphenyl, thiadiazolylphenyl, arylthiazolyl, arylthiadiazolyl] have been prepared and tested for their antimalarial and antifilarial activities but were inactive. Some I have also been tested for their bactericidal and **fungicidal** activity, but were also inactive.
ST heteroarylaminoquinoline; bactericide heteroarylaminoquinoline; **fungicide** heteroarylaminoquinoline; anthelmintic heteroarylaminoquinoline; antimalarial heteroarylaminoquinoline; quinoline heteroarylamino
IT **Anthelmintics**
Antimalarials
Bactericides, Disinfectants, and Antiseptics
Fungicides and Fungistats
(heteroarylaminochloroquinolines without activity)
IT 105492-79-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and deacetylation of)
IT 105492-78-2P 105492-87-3P 105492-88-4P 105492-89-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with chloroformate)
IT 2002-03-1P 28004-62-8P 51659-90-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, with dichloroquinoline)

IT 833-63-6P 105492-95-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reduction of)

IT 5351-66-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and ring closure of)

IT 105492-77-1P **105492-80-6P** 105492-81-7P 105492-82-8P
105492-83-9P 105492-84-0P 105492-85-1P 105492-86-2P 105492-90-8P
105492-91-9P 105492-92-0P 105492-93-1P 105492-94-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

IT 86-98-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with amines)

IT 106-93-4 39539-66-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with aminothiazoylanilinoquinoline)

IT 79-19-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with benzoyl chloride)

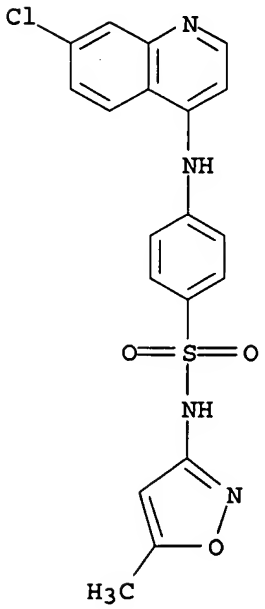
IT 99-03-6 **723-46-6** 3673-53-8 21674-96-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with dichloroquinoline)

IT 122-01-0 122-04-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with thiosemicarbazide)

IT **105492-80-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

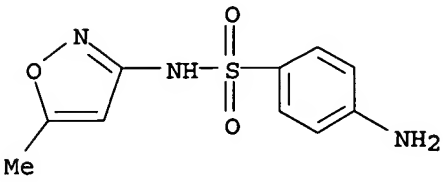
RN 105492-80-6 HCAPLUS

CN Benzenesulfonamide, 4-[(7-chloro-4-quinolinyl)amino]-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)

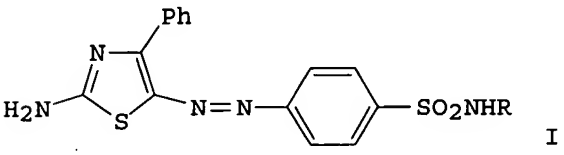


IT **723-46-6**
RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with dichloroquinoline)
RN 723-46-6 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



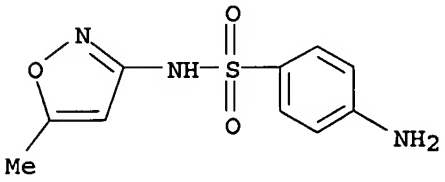
L106 ANSWER 24 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1985:45824 HCAPLUS
DN 102:45824
ED Entered STN: 09 Feb 1985
TI Biological activity of 2-amino-4-phenyl-5-p-azobenzene sulfonamido thiazoles
AU Wadodkar, S. G.; Kasture, A. V.
CS Dep. Pharm. Sci., Nagpur Univ., Nagpur, 440 010, India
SO Journal of the Indian Chemical Society (**1984**), 61(4), 374-5
CODEN: JICSAH; ISSN: 0019-4522
DT Journal
LA English
CC 28-7 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): **5**
OS CASREACT 102:45824
GI



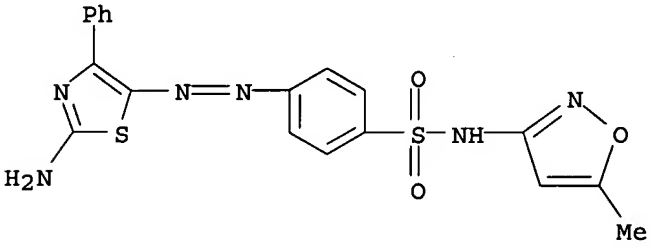
I

AB 5-(Phenylazo)thiazoles I (R = H, guanidino, Ac, methylisoxazolyl, thiazolyl, pyrimidyl, dimethylpyrimidyl), which were prepared, are useful as bactericides and **fungicides** (no data). Sulfanilamide was diazotized and coupled with 2-amino-4-phenylthiazole to give I (R = H).
ST sulfamoylphenylazothiazole prepn **fungicide** bactericide; thiazole sulfamoylphenylazo prepn **fungicide**
IT Bactericides, Disinfectants, and Antiseptics
Fungicides and Fungistats
((sulfamoylphenylazo)thiazoles)
IT 2010-06-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(coupling of, with diazotized sulfanilamides)
IT 57-68-1 63-74-1 68-35-9 72-14-0 144-80-9 144-82-1 515-64-0 **723-46-6** 17103-55-8
RL: PRP (Properties)
(diazotization and coupling of, with thiazole derivative)
IT 85811-06-9P 85811-08-1P 85811-09-2P 94122-34-6P 94122-35-7P 94122-36-8P **94122-37-9P** 94122-38-0P 94122-39-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

IT **723-46-6**
RL: PRP (Properties)
(diazotization and coupling of, with thiazole derivative)
RN 723-46-6 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



IT **94122-37-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 94122-37-9 HCAPLUS
CN Benzenesulfonamide, 4-[(2-amino-4-phenyl-5-thiazolyl)azo]-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)



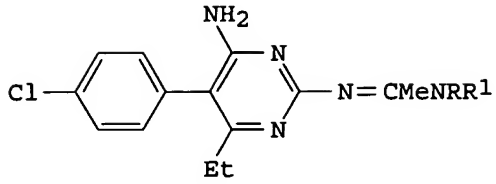
L106 ANSWER 25 OF 25 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1983:198267 HCAPLUS
DN 98:198267
ED Entered STN: 12 May 1984
TI Acetamidinophenylpyrimidines and a drug containing them
IN Scharwaechter, Peter; Gutsche, Klaus; Kohlmann, Friedrich Wilhelm
PA BASF A.-G. , Fed. Rep. Ger.
SO Ger. Offen., 22 pp.
CODEN: GWXXBX
DT Patent
LA German
IC C07D239-46; A61K031-505
CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 3129620	A1	19830217	DE 1981-3129620	19810728 <--
PRAI DE 1981-3129620		19810728 <--		

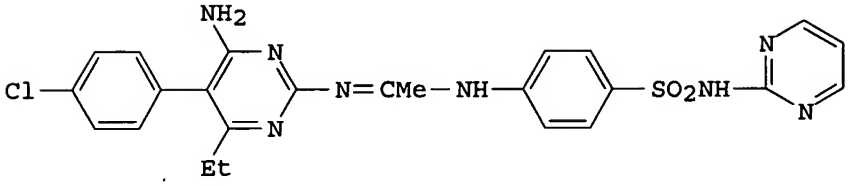
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
DE 3129620	IC	C07D239-46IC A61K031-505

OS CASREACT 98:198267
GI



I



II

AB I [R = H; R1 = C1-4 alkyl, Ph, benzyl, furfuryl, (un)substituted [(pyrimidinylamino)sulfonyl]phenyl etc.] were prepared and in some cases were more effective antimalarials than pyrimethamine. Thus, refluxing the appropriate pyrimidinylsulfanilamide and acetimidate in pyridine gave II.

ST pyrimidinylacetamidine antimalarial; acetamidine pyrimidinyl antimalarial; amidine pyrimidinyl antimalarial

IT Aminolysis
(of Et pyrimidinylacetimidates)

IT **Antimalarials**
(pyrimidinylacetamidines)

IT 69603-28-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(aminolysis of)

IT 57-68-1 62-53-3, reactions 68-35-9 100-46-9, reactions 109-89-7, reactions 110-89-4, reactions 110-91-8, reactions 123-75-1, reactions 124-40-3, reactions 127-79-7 144-83-2 152-47-6 515-64-0 599-88-2 617-89-0 651-06-9 723-46-6 1740-04-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(aminolysis of acetimidic ester derivative with)

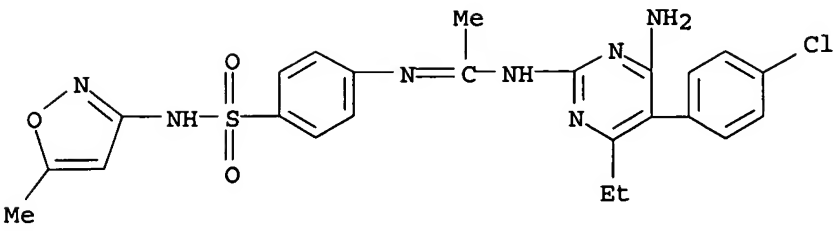
IT 85593-07-3P 85593-08-4P 85593-09-5P 85593-10-8P 85593-11-9P 85593-12-0P 85593-13-1P 85593-14-2P 85593-15-3P 85593-16-4P 85593-17-5P 85593-18-6P 85593-19-7P 85593-20-0P 85593-21-1P 85593-22-2P **85593-23-3P** 85615-13-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and antimalarial activity of)

IT 85593-24-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

IT **85593-23-3P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and antimalarial activity of)

RN 85593-23-3 HCAPLUS

CN Ethanimidamide, N-[4-amino-5-(4-chlorophenyl)-6-ethyl-2-pyrimidinyl]-N'-[4-[[(5-methyl-3-isoxazolyl)amino]sulfonyl]phenyl]- (9CI) (CA INDEX NAME)



=> d l107 all fhitstr

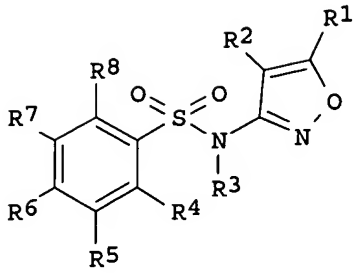
L107 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:220163 HCAPLUS
DN 140:247021
ED Entered STN: 19 Mar 2004
TI Isoxazole derivative inhibitors of **fungal** invasion, and preparation thereof
IN **Talley, John Jeffrey; Fretzen, Angelika; Zimmerman, Craig; Barden, Timothy; Yang, Jing Jing; Martinez, Eduardo; Busby, Robert; Cordero, Etchell A.; Houman, Fariba; Pierce, Christine M.; Summers, Eric F.**
PA **Microbia, Inc., USA**
SO PCT Int. Appl., 114 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM A61K
CC 1-5 (**Pharmacology**)
Section cross-reference(s): 28
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004021997	A2	20040318	WO 2003-US27911	20030908 <--
	WO 2004021997	A3	20040617		
	WO 2004021997	C1	20040729		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2004106663	A1	20040603	US 2003-657753	20030908 <--
PRAI	US 2002-408561P	P	20020906	<--	
	US 2003-443693P	P	20030130	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004021997	ICM	A61K

OS MARPAT 140:247021
GI



I

AB This invention provides isoxazole-based inhibitors of **fungal** invasion. Preparation of compds. of the invention, e.g. I, is included.

ST isoxazole deriv prepn **fungal** invasion inhibitor

IT **Fungicides**
(candins; isoxazole derivative inhibitors of **fungal** invasion, preparation, and use with other antimicrobial agents)

IT **Infection**
(**fungal**; isoxazole derivative inhibitors of **fungal** invasion, and preparation)

IT **Fungi**
(**infection**; isoxazole derivative inhibitors of **fungal** invasion, and preparation)

IT **Candida albicans**
Drug delivery systems
Fungicides
(isoxazole derivative inhibitors of **fungal** invasion, and preparation)

IT Antimicrobial agents
(isoxazole derivative inhibitors of **fungal** invasion, preparation, and use with other antimicrobial agents)

IT Polyenes
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(isoxazole derivative inhibitors of **fungal** invasion, preparation, and use with other antimicrobial agents)

IT Heterocyclic compounds
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(nitrogen, five-membered; isoxazole derivative inhibitors of **fungal** invasion, preparation, and use with other antimicrobial agents)

IT **671248-92-3P** 671248-93-4P **671248-94-5P**
RL: **PAC (Pharmacological activity)**; SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(isoxazole derivative inhibitors of **fungal** invasion, and preparation)

IT 95915-12-1 **263387-10-6 384860-06-4** 384860-07-5
671248-95-6 671248-96-7 671248-97-8
671248-98-9 671248-99-0 671249-00-6
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671249-04-0 671249-05-1 671249-06-2
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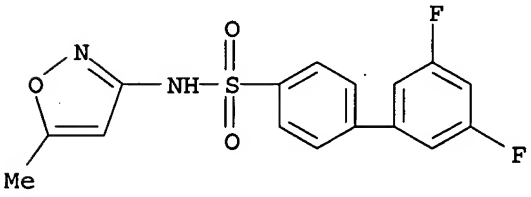
671249-52-8 671249-53-9 671249-54-0
671249-55-1 671249-56-2 **671249-57-3**
671249-58-4 671249-59-5 671249-60-8
671249-61-9 671249-62-0 671249-63-1
671249-64-2 671249-65-3 671249-66-4
671249-67-5
RL: **PAC (Pharmacological activity)**; **THU (Therapeutic use)**; BIOL (Biological study); USES (Uses)
(isoxazole derivative inhibitors of **fungal** invasion, and preparation)

IT 1072-67-9, 3-Amino-5-methylisoxazole 81566-65-6, 5-Butylthiophene-2-sulfonyl chloride 156545-07-2, 3,5-Difluorophenylboronic acid 171860-68-7, Cyclopentylzinc bromide **349614-44-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(isoxazole derivative inhibitors of **fungal** invasion, and preparation)

IT 107-11-9D, Allylamine, derivs. 110-91-8D, Morpholine, derivs. 11076-17-8D, Sordarin, derivs.
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(isoxazole derivative inhibitors of **fungal** invasion, preparation, and use with other antimicrobial agents)

IT **671248-92-3P**
RL: **PAC (Pharmacological activity)**; **THU (Therapeutic use)**; **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(isoxazole derivative inhibitors of **fungal** invasion, and preparation)

RN 671248-92-3 HCAPLUS
CN [1,1'-Biphenyl]-4-sulfonamide, 3',5'-difluoro-N-(5-methyl-3-isoxazolyl)-(9CI) (CA INDEX NAME)



=> fil reg
FILE 'REGISTRY' ENTERED AT 09:52:27 ON 13 JAN 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 11 JAN 2005 HIGHEST RN 811782-89-5
DICTIONARY FILE UPDATES: 11 JAN 2005 HIGHEST RN 811782-89-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

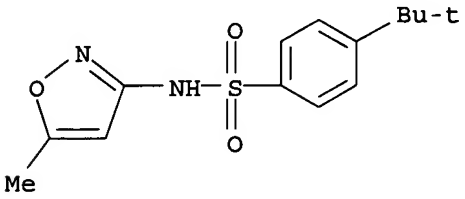
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> => d l12 ide can tot

L12 ANSWER 1 OF 8 REGISTRY COPYRIGHT 2005 ACS on STN
RN 384860-07-5 REGISTRY
CN Benzenesulfonamide, 4-(1,1-dimethylethyl)-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H18 N2 O3 S
SR Chemical Library
LC STN Files: CA, CAPLUS, CHEMCATS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

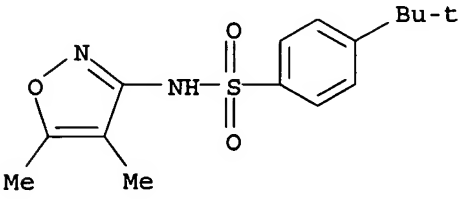


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:247021

L12 ANSWER 2 OF 8 REGISTRY COPYRIGHT 2005 ACS on STN
RN 302957-73-9 REGISTRY
CN Benzenesulfonamide, 4-(1,1-dimethylethyl)-N-(4,5-dimethyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H20 N2 O3 S
SR CA
LC STN Files: CA, CAPLUS, CASREACT
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation)



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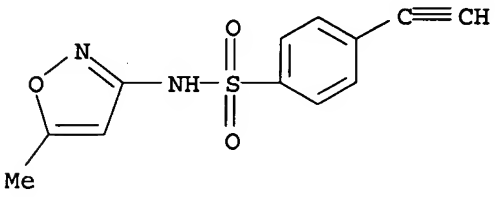
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 133:321821

L12 ANSWER 3 OF 8 REGISTRY COPYRIGHT 2005 ACS on STN
RN 288570-28-5 REGISTRY
CN Benzenesulfonamide, 4-ethynyl-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H10 N2 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: RACT (Reactant or reagent)
RL.NP Roles from non-patents: BIOL (Biological study)



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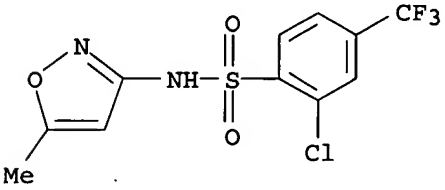
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:235498

REFERENCE 2: 133:171752

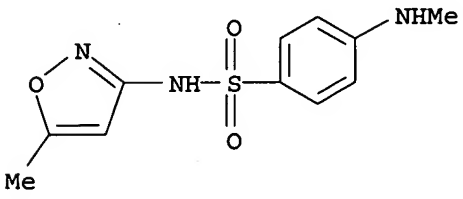
L12 ANSWER 4 OF 8 REGISTRY COPYRIGHT 2005 ACS on STN
RN 254429-69-1 REGISTRY
CN Benzenesulfonamide, 2-chloro-N-(5-methyl-3-isoxazolyl)-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C11 H8 Cl F3 N2 O3 S
SR CAS Client Services
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 5 OF 8 REGISTRY COPYRIGHT 2005 ACS on STN
RN 204636-74-8 REGISTRY
CN Benzenesulfonamide, 4-(methylamino)-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD

MF C11 H13 N3 O3 S
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: ANST (Analytical study); PREP (Preparation)



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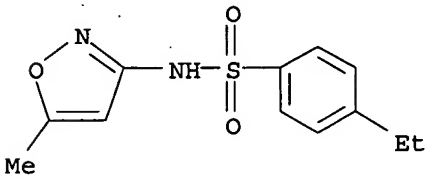
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:235216

L12 ANSWER 6 OF 8 REGISTRY COPYRIGHT 2005 ACS on STN
RN 95915-12-1 REGISTRY
CN Benzenesulfonamide, 4-ethyl-N-(5-methyl-3-isoxazolyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzenesulfonamide, p-ethyl-N-(5-methyl-3-isoxazolyl)- (7CI)
FS 3D CONCORD
MF C12 H14 N2 O3 S
LC STN Files: CA, CAOLD, CAPLUS, CHEMCATS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); USES (Uses); NORL (No role in record)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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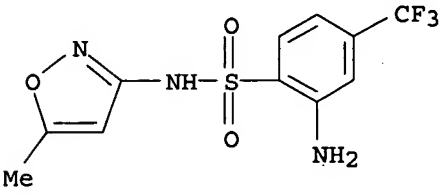
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 140:247021

REFERENCE 2: 57:69234

L12 ANSWER 7 OF 8 REGISTRY COPYRIGHT 2005 ACS on STN
RN 21718-18-3 REGISTRY
CN p-Toluenesulfonamide, 2-amino-α,α,α-trifluoro-N-(5-methyl-3-isoxazolyl)- (8CI) (CA INDEX NAME)
FS 3D CONCORD
MF C11 H10 F3 N3 O3 S

LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation)
RL.NP Roles from non-patents: PREP (Preparation)



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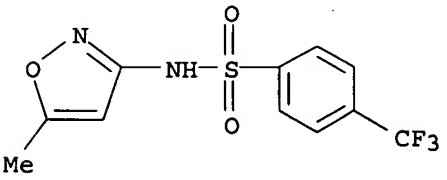
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 73:120511

REFERENCE 2: 70:87639

L12 ANSWER 8 OF 8 REGISTRY COPYRIGHT 2005 ACS on STN
RN 21718-12-7 REGISTRY
CN p-Toluenesulfonamide, α,α,α-trifluoro-N-(5-methyl-3-isoxazolyl)- (8CI) (CA INDEX NAME)
FS 3D CONCORD
MF C11 H9 F3 N2 O3 S
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 70:87639

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(FILE 'HOME' ENTERED AT 08:06:25 ON 13 JAN 2005)
SET COST OFF

FILE 'HCAPLUS' ENTERED AT 08:06:34 ON 13 JAN 2005
L1 1 S US20040106663/PN OR (US2003-657753# OR WO2003-US27911 OR US20
SEL RN

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     FILE 'REGISTRY' ENTERED AT 08:08:32 ON 13 JAN 2005
L2            88 S E1-E88
L3            81 S L2 AND NOC3/ES AND NR>=2
L4               STR
L5            50 S L4
L6          1919 S L4 FUL
                 SAV L6 QAZI657/A
L7               STR L4
L8            50 S L7 CSS SAM SUB=L6
L9          1705 S L7 CSS FUL SUB=L6
                 SAV L9 QAZI657A/A
L10              STR L7
L11           0 S L10 SAM SUB=L9
L12           8 S L10 FUL SUB=L9
                 SAV L12 QAZI657B/A
L13         1697 S L9 NOT L12
L14              STR L10
L15           0 S L14 SAM SUB=L13
L16           5 S L14 FUL SUB=L13
                 SAV QAZI657C/A L16
L17           3 S L16 AND (OC4-C6 OR OC2OC2-C6 OR C6-C6)/ES
L18         1692 S L13 NOT L16
L19              STR L10
L20           45 S L19 SAM SUB=L18
L21           12 S L19 CSS SAM SUB=L18
L22          164 S L19 CSS FUL SUB=L18
                 SAV L22 QAZI657D/A
L23           86 S L22 AND NC>=2
L24           71 S L23 AND ((PMS OR MXS OR MNS)/CI OR COMPD OR WITH OR UNSPECIFI
L25           15 S L23 NOT L24
L26           78 S L22 NOT L23
L27            6 S L26 AND (D/ELS OR ION OR IDS/CI)
L28            1 S L27 AND BR/ELS
L29            5 S L27 NOT L28
L30           73 S L26 NOT L29
L31           91 S L17,L25,L30
                 SAV L31 QAZI657D1/A
L32         1528 S L18 NOT L22,L31

     FILE 'HCAOLD' ENTERED AT 09:09:11 ON 13 JAN 2005
L33           69 S L31
L34           11 S L33 AND P/DT
                 SEL AN
                 EDIT E89-E99 /AN /OREF

     FILE 'HCAPLUS' ENTERED AT 09:10:01 ON 13 JAN 2005
L35           19 S E89-E99
                 SEL DN AN 2 4 5 6 7 10 12 14 16
L36           10 S L35 NOT E100-E126
                 SEL DN AN L35 5
L37            1 S E127-E129
L38           11 S L36,L37
L39         3187 S L31
L40            9 S L38 AND L39
L41           11 S L38,L40
L42            1 S L1 AND L39
L43          545 S L32
L44            1 S L1 AND L43
L45            1 S L42,L44

     FILE 'REGISTRY' ENTERED AT 09:17:14 ON 13 JAN 2005
L46            4 S 671249-56-2 OR 95915-12-1 OR 384860-07-5 OR 671248-93-4
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                  E TALLEY J/AU
L47           143 S E3,E7,E21,E24,E25
                  E FRETZEN A/AU
L48             5 S E4
                  E ZIMMERMAN C/AU
L49            76 S E3-E14
                  E ZIMMERMAN CRAIG/AU
L50            14 S E3-E5
                  E ZIMMERMANN C/AU
L51           161 S E3-E13
                  E ZIMMERMANN CRAIG/AU
L52             1 S E4
                  E BARDEN T/AU
L53            25 S E3-E8
                  E YANG J/AU
L54          1157 S E3,E15-E16
                  E YANG JING/AU
L55           496 S E3,E27-E30
                  E YANG JINGJING/AU
L56            20 S E2,E3
                  E MARTINEZ E/AU
L57           585 S E3-E29,E35-E42
                  E BUSBY R/AU
L58            34 S E3-E9,E15-E19
                  E CORDERO E/AU
L59            17 S E3-E6,E20-E22
                  E CIPRIANO F/AU
L60             5 S E3
                  E HOUMAN/AU
L61            12 S E4,E5
                  E FARIBA/AU
                  E PIERCE C/AU
L62            16 S E3,E14
                  E PIERCE CHRIS/AU
L63             2 S E5
                  E SUMMERS E/AU
L64            16 S E3,E14,E15
                  E MICROBIA/PA,CS
L65            29 S E3-E18
L66             4 S L39,L43 AND L47-L65
                  E ETCHELL/AU
L67             1 S E4
                  E CHRISTINE/AU
L68             3 S E3,E22,E23
L69             2 S E29,E30
L70             1 S L39,L43 AND L67-L69
L71             4 S L1,L45,L66,L70
L72           628 S L39,L43 (L) (PAC OR THU OR DMA OR PKT)/RL
L73             9 S L39,L43 (L) AGR/RL
L74          1897 S L39,L43 AND (PHARMACEUT? OR PHARMACOL? OR AGR?)/SC,SX
                  E FUNGICIDE/CT
                  E E5+ALL
L75         77972 S E8+OLD,NT
L76          1637 S E35+OLD,NT
L77          2772 S E36+OLD,NT
L78         23430 S E37+OLD,NT
L79           460 S E39+OLD,NT
                  E FUNGI/CT
L80           858 S E3 (L) INFECT?
                  E INFECTION/CT
                  E E3+ALL
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L81          199 S E2,E3 (L) FUNG?
L82         1044 S E2+OLD,NT (L) FUNG?
                 E CANDIDA/CT
L83         9739 S E12-E17
L84        16151 S (CANDIDA OR C)()ALBICANS
L85       207183 S ?FUNG?
L86        75499 S ?MYCO?
L87          152 S L72-L74 AND L75-L86

     FILE 'REGISTRY' ENTERED AT 09:37:10 ON 13 JAN 2005
L88            1 S 723-46-6
L89         1618 S L31,L32 NOT L88

     FILE 'HCAPLUS' ENTERED AT 09:37:42 ON 13 JAN 2005
L90          600 S L89
L91           31 S L90 AND L87
L92           22 S L91 AND ?FUNG?
L93            9 S L91 NOT L92
L94          104 S L89 (L) THU/RL
L95            7 S L94 AND L75-L85
L96           18 S L89 (L) (PAC OR PKT OR DMA)/RL NOT L94
L97            8 S L96 AND (MYCOSIS? OR INFECT? OR FUNG? OR TUBER?)/CT
L98          267 S L90 AND (PHARMACO? OR PHARMACEUT?)/SC,SX NOT L94,L96
L99           17 S L98 AND L75-L85
L100           6 S L99 NOT L71,L92,L95,L97
L101          31 S L71,L92,L95,L97
L102          25 S L101 AND (PD<=20020906 OR PRD<=20020906 OR AD<=20020906)
L103           6 S L101 NOT L102
L104           1 S L103 AND FUNGAL/TI
L105          26 S L102,L104
L106          25 S L105 NOT L1
L107           1 S L105 NOT L106

     FILE 'REGISTRY' ENTERED AT 09:49:42 ON 13 JAN 2005

     FILE 'HCAOLD' ENTERED AT 09:49:57 ON 13 JAN 2005

     FILE 'HCAPLUS' ENTERED AT 09:50:06 ON 13 JAN 2005

     FILE 'REGISTRY' ENTERED AT 09:52:27 ON 13 JAN 2005

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